





LAF/L-X

Bob Reitsma Ocosingo  
10/24 '92-'93 II

13 km  
Pine - Oak Scrub on Rd to  
Jankin  
50% oak - 50% Pine

25, ♀ ♀ BTG (change → ♀)

TW (3 in red fruited legume)

BTW ♂

S.T. Red.

♀ B. oriole

♀ m

♂ Summer Tanager

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San Mateo  
S&W 4-TTW + 1 BTG

in Red fruited legume

large fruit 2-3" opened  
by other birds eaten by vultures.



Sup SAC 1/8

DL

Hornoptera 3 y/l ds  
" " " "

3x6 11

4x15 1

Diptera 4 y/lk to

2x5 1

" 2 rd "

1x3 11

homop 3 rd/wh up

3x12 1

Lep larvae 8 y/l to

3x6 11 11

" 9 y/l to

2x6 11  
1x6 11

homop 3 rd/wh up

6x16 11 11

4x7 1

3x8 11

5 m

8R 3x6 1

homop 2 y/l to

6x16 1

Diptera 4 gr bp

3x5 11 11

spider 2 or to

5x13 1

2x5 11

" " " "

2x6 11

1x3 11

homop 2 y/l up

3x6 11 11 11

3x12 1

5x9 1

5x15 1

4x10 1

1.2 m

Runway 1

Thick Pcg - light drizzle

1/17/93 MPO

823-1138 breezy  
sunny breezy

emher

on back 0.4

12L

5/12 ep

"

h 2.3

10L

3 bag w ad 3.3 20R 7/12 bla

3 " ad 5.2

2 Bag w h 50 8

20

1 b st 0 13

Wawa shr 1/2

Ptem shr 1/2

2 Sari 0 14 5.2 12R

2 sc wo 0 14

Wawa shr 1/2

Stre 0 7/20

Grpe 0 9

2 hewa P 13/26

gwa o - no - yellow below check green back

gwa 0 14/20

Pech h P 19/20



btgnw ♀ P 15/26

ccwa O 15/20

phen ♂ 3♀ P 25/26 mistletoe

Towa RZ 5.2 10L 8/16

Manca h 4.8 7L

mywa 6.7 5R 1/2 shr

ubwaw h 6.4 4R 0.5/2 "

Btgnw h 7.5 15L

bhen h 7.7 15R

wawa h 9.8 10L shr

3 mywa h 8.4 7R "

2 Btgnw h 10.3 13R 17/18 O

Pbw s 11.2 10L 8/20 blk

agwa h " 15L shr

ech hum s 11.4 5R

SCSO s 12.3 8R 7/8 blk

btgnw h 12.6 17L 15/87 blk

hagl - call note like a pup of  
spring peep - 3 chicks

wawa h 16.1 18L shr 1/2

~~btgnw~~ h 17.2 17R shr 13/20

wawa 17.5 6R 1/2 shr

btgnw h 17.4 13L 14/22 bak

ech hum ♂ 17.7 8L 2 1/2 yell flow

mywa h 18.1 14R shr

" .5 11R "

3cbta .4 15L 7/9 Oak

wawa s " 10L shr

bhen ♀ " 18L 8/17 P

Savi h .7 8L

3bhen 19.5 6R

jufl h .7 10L 10/17

wawa h .9 9L 1/2 shr

2btgnw adh .8 12L 11/12 blk

2btgnw h .8 20L

vitr .9 19L 9/15 blk

Flame-colored Tan after harvest



Bygn = M

~~btgn~~  
~~clat~~

714-988 SAE	11/18/93	Foggy, <del>et</del> → Sunny clear
Mama ♀	0.1	1L 3/6 ONC
Wawa h	0.5	10L 1/5 shr
rthm Ks	0.3	4R 2/3 "
wawa h	0.7	15R shr
nywa h	0.7	12L shr
yoff s	0.3	17R 3/7 ble
sthu o	0.8	18R 7/7 ble
<del>mama h</del>	<del>1.5</del>	<del>5R</del>
lefl h	1.2	3R 3/4 shr
yloca	1.3	8R 2/4 "
sbpe	"	18R shr
2bbwr	1.6	4L 2/4 shr
4/8 gsa	1.6	8R 3/4 "
nywa h	1.9	5R 1/4 "

meklesh	2.5	20R 4/5 sh
shwr h	2.6	18R 1/4 "
wawa h	3.5	2R 2/4 "
hawa h	3.6	15L 1/3 "
bawa h	3.2	13L 1/3
nywa h	.5	8L 1/4
mama ♀	.6	8R 3/3
gasp s	4.3	1R 1/3
? belt fly	"	8R 1/4
mama o	"	3R 3/3
plaw	"	5R 1/4
mama s	.4	13L 3/4
rasp s	.3	9R 2/3
wawa h	5.6	20L 2/3
mama h	6.1	15L 2/3
nywa h	.9	4R 1/4
mama ✓	.8	1L 2/3
" ♀	"	7L "



2 wags h	8	19L	
left s	7.2	1R	1/4
begin f s	"	2R	3/4
mywa h	.5	6L	1/4
mebl h	.9	18R	3/3
anywah	8.1	9L	1/3
wags h	.2	11L	"
plur h	10.3	20R	
mywa h	<del>11.2</del> 12.2	3L	1/2

Are birds moving? No hay was  
on at anzo tambo.

begin h	<del>11.2</del> <sup>11.6</sup>	18R	sh 2/3
plur h	11.8 <sup>9</sup>	11R	1/3
S/sh o	<del>11.2</del> <sup>11.6</sup>	1R	2/2
mywa f	12.4 <sup>9</sup>	3R	1/3
fram o	8.2	17R	3/3 (4)

mywa s	13.6 <del>15.2</del>	4R	0.5/2
mana f	13.8	9L	0.5/3
over h	15.5	2L	1/4
manao	"	"	"
begin s	.8	7R	3/3
ybeh L	16.2	7R	2/2
left s	17.2	6R	4/5
other h	16.9	12R	2/2
ghap h	17.5	13R	
mywah	.8	5R	
<del>mywa</del> f s	.6	10L	3/3
phor h	.9	9R	1/4
left s	18.9	2R	3/4
mywa h	19.2	7L	2/4
2 r g do s	.7	15L	3/3
mana dr	.9	8R	1/3
left h	.8	13L	1/3
mywah	.9	16R	1/2



1/19/93 Cof Cloudy cool 7/2-1030

gsPhc 0.0 1R 14/14 ble

" 0.7 1L 15/16 ble

gcbl " 19R 16/17 "

mana 1.9 1R 9/6 ble

left s 9 0.0 2fl

wawa h 2.2 26R 2/3 sh

(y/btl frequently there far)

mana h 1.9 15L 3/6 ble  
spot tail wavy  
pawpaw s 2.1 1R 9nd

-tummy collar, smaller than pawpaw

begin h 2.3 15L 10/14 ble

2 rstat > 3.3 9L

gwa

mana 3.2 3L 9/13 ble

3 Inbu d, mo 11 3R 8/13 "

unmarked 8.1 5R 3/8 ble

obfl s .2 8R 3/7 "

btgrs .3 10R 5/9 "

over h .6 10R

nsp s .6 6R 2ksh

phur h .5 14R

wase s .3 7R 1/2 sh

begin h .5 7L

mana h .7 13R

mgwa s .8 6L 1/2 cof

gcbl h .9 9L 13/13 ble

fine parrots " " "

mgwa h 9.5 3L 1/2 cof

wawa h .7 1L 15/20 ble

phur .9 3L 9nd

gsps 10.5 1L 1/2 cof

sutah .8 18R 19/20

mana h 11.5 9R 2/2 cof



lefl s	8	8L	1/20
3 r bpi	.7	12R	19/20 ble
wawa ad	12.8	2L	7/10 ONC
nawa ad	~	"	"
kawa h	13.2	AR	col
gope h	13.3	20L	
lefl h	.7	8L	2
2 Plannulated Ph?	14.3	10R	10/15 bl
2 be s s b m chae	13.8	8L	16/17
3 g s f l s	15.1	10L	17/21 bl
nawa h	15.3	6R	1/2 sh
wawa h	.2	13L	5/6 bl
bogwa	.7	14R	7/13 bl
<del>stre</del> stre s	17.1	8R	4/14 bl
goff	18.4	6R	13/15 bl
sori	"	"	"
mawa	"	"	"
lobfl	18.4	5L	15/17
roha	18.8	20L	

Bogwa h	19.7	10R	ble
shrub layer dense in majority of transect			
1/25 MPE	Cloudy, cool, leafy 735		
wawa h	19.5	20R	1130
bogwa h	.7	"	915-1015 PPD → rain
St Ry h	17.5	17L	
spread right shr	17.8	2L	8/30
bogwa h	.4	10R	17L
SL S O S	15.5	12	9/10 ble
st Ry h	14.9	10R	7/32
2 amto	15.4	11L	23/28 45+
Ahja h	14.5	18R	
stre s	6		
2 wawa h	12.5	3R	1/40
2 bogwa h	35		
st Ry h	15		60 adcp
Gcha	10		



Stkg 10  
 dull h  
 sparrow 7.5  
 son 2  
 wawa h 11.8 15R  
 NOOT (balt? check call 8.9 <sup>20/22</sup> 12L  
 wawa h 3.1 19L  
 2 chta h " "  
 spnt s 7.4 10L 05/10  
 wawa h 4  
 waga ♂ 25  
 napaula? 25  
 waga 10  
 waga h 9  
 waga h 9  
 waga ♂ 15  
 5 chta 10

6.1 7L  
 /33

baya I 3.2 7R <sup>28/29</sup>  
 3 chta h  
 stkg h 2.8 15R  
 baya h 1.7 20R  
 baya s 0.9 15R <sup>4/10</sup>  
 waga s 0.7 20R <sup>9/4/29</sup>  
 [white-necked Bush Finch]  
 waga MPO 1210 -  
 waga remex rd  
 son  
 stkg  
 waga  
 2 spaw  
 stkg  
 waga  
 waga  
 waga  
 waga  
 3 chta



El Norte

710  
1020

breezy

127/92 GPD Cold Clouds following  
all day rain  
~~Oct 25 cool, overcast~~

2 B. Ta	19.7	14L	12/20	fic
Anne ♀	.7	8R	5/9	ACA
Anna ♂	.6	1L	3/4	shr
Yana h	.3	2L	18/20	do
rthm s	18.9	2L	25/9	shr
hefl s	"	"	3/4	"
Coye h	.5	20L		
howa b	.5	13L		brush
rowe h	.13	15L		
mawa ♀	.5	1L	5/2	dryg
btzgn m	"	"	"	"
btzgn h	"	"	"	"
mawa ♂	.6	17L	05/1	shr
2 Brown	.5	18L	9/20	fic
Yana ♂ ad	17.9	16L	7/14	fic
Yana s	.4	15L	7/11	dryg
hefl	.4	13L	"	"
anne ♀	.4	7L	"	"
hefl s	.5	18L	9/17	fic

GPD veg sample - % cover / t.u.  
- dominant over trees sp/ta

Claudia check nets

mawa ♂	3	3L	3/9	ble
" h	16.3	3L	4/7	vm
mawa ♂	"	"	"	"
y bch s	"	11L	"	early fruit
anne ♀	"	"	"	"
rthm s	15.8	18L	2/4	shr
ozor ♂	.5	4L	11/11	with inga
y bch	.4	17L	8	
Suta im ♂	.4	3L	9/9	ble
anne ♀	.3	9L	4/8	inga
mawa ♂	.2	8L	7/10	ing
btzgn ♂	.1	6L	7/10	"
mawa	14.8	18L	8	
mawa ♂	"	9L	9/12	"
mawa ♂	.6	6L	3/9	ble
btzgn ♂	.6	"	"	"
hefl	.7	8L	8/10	"
hefl	"	16L	6/10	inga
anne ♂ ad	.6	18L	4/10	ble



kygn	.5	202	4/10 ble
buma ♀	"	"	2/10 "
mamao →	"	"	4/10 "
wevi	"	"	"
sq cuthroat	2	7L	7/10 ble
buma	13.9	7L	7/10 ble
coye	6	7L	
anne ♀	.4	10L	1/2 wil
2 mama ♀ ♂	13.8	11L	7/12 fig
zhu h	14.7	16L	
mama h	<del>13.5</del> 12.8	17L	
tree! s, h	.6	18L	9/13 ble
2 call			like a trki
2 mabl h	.2	6L	
rbsp h	.3	1L	
<del>rub</del> rub h	.2	1L	pur fl
2 wpm h	11.8	4L	
coye	.8	3R	
hwa h	.7	15L	

rtat h	12.1	20L	2/10 shr
kygn h	11.7	16L	
ktgw oad	"	8L	8/11 fig
buma h	.9	20L	
yoff s	.7	16L	9/11 fig
ktgw h	12.2	17L	
yena oad	11.3	5L	8/13 fig
rusp	.4	3R	4/5 ble
ktgw oad	10.7	6L	9/12 fig
mama oad	.34	7L	8/12 fig
left s	9.5	4L	4/13 vis
left	.2	6L	2/13 fig
mama oad	7.8	"	"
buma h	.6	10L	"
2 coye	.4	13L	" shr
anne oad	7.7	8L	" fig
yena h	.1	4L	12/19 fig
mama oad	6.7	6L	5/10 vis



kurua ♀	6.7	6L	4/10 inga
ceyo ♂	"	8L	1/4 in
urua II	.4	0.0	4/10 hr
manao ♂	.2	1L	4/10 "
rusp s	6.2	BR	3/3 shr
anne ♀	5.8	7R	7/10 hr
chased by			
yewa ♂	"	"	"
left	"	"	"
chased by			
ceyo h	"	10L	
manua ♀	"		
urua ♂	.1	2L	4/10 hr
bygn h	5.8	7L	bl.
manua ♂	9	8L	inger
ruswall	.5	10L	stream
yewa ♀	"	3R	7/15 hr
anne ♂	"	42	4/7 Inga

kurua ♀	4.2	10L	2/9 ble
urua ♂	"	"	"
anne ♂	4.4	8L	
yten h	3.8	20L	
yewa h	"	8L	
kurua ♂	4.1	10L	7/14 ble
2 Nowa	3.8 4.2	10L	stream
Amk	4.5 2	8L	7/15 hr
mana	3.8 2	12L	1/3 shr
urua s	2.5	16L	2/3 "
mana ♂	2.1	2R	3/12 ble
yewa h	1.8	3L	15/15 hr
urua ♂	"	"	1
kurua ♂	"	"	3 1/10
bygn h	"	"	
urua s	"	"	3
bygn h	1.9	15L	
manao ♂	1.1	14L	2/3 shr
" h	.3	"	"



wawa h 0.5 16L

WAC 1/28/93 <sup>breeze</sup> Cloudy, cool 659-1011

TK<sub>1</sub> h 19.6 4R 7/7

Soft h 19.8 18L

wawa ad .6 17R 2/3 SW

NSP s .7 8R 3/2

anne ♀ .7 3R 2/7

2 gsa s .7 7R 6/7

yewa ♀ .8 10L 7/7

ngwa h .6 2R 0.5/1.5 SW

manao → .3 1R 2/7

" ♀ .2 19R 7/7

2 oros ♀ .3 14R 7/7

lope h .2 16R 0.5/1.5 SW

left h .6 11L

grca h .7 16L

wfys h .3 17R 0.5/3 SW

ybeh h .5 18L

plws h 18.8 17L

left h .6 9R 3/8

" h " 19L "

hwa h ~ ~ 1/2 honey pot

ngwa h 17.8 3R S

" 18.5 17R S

hwa h 17.5 1R 3/8

anne " .4 2R 6/8

baat → .5 11R 3/8

ybeh s .3 1L ♀

case ♀ .4 9L ♀

ngwa .1 12R S

yewa h .7 12L 2/8

case → .3 12R 0.5/1.5

" h 16.8 9L

ybeh .5 10R 1/3 S

left s 15.7 13L 4/7



they do manage acacias  
 - they continually allow the  
 woodland to expand if much  
 cutting has been done

growth rate  $\approx 2$  m/year

7m tall  $\approx 5$  years

1/2 m, fenceposts - last long

"CACHIST" - "espinas"

management depends on ganaderos

wishes  
 woodlots

unimproved by ganaderos

they cut when 6-7 m tall

Caye h 15.3 15R  $1/35$

Wagw f .2 17L  $5/7$

Wagw f .2 " "

Wagw h 14.9 14R  $0.5/25$

Wagw h .8 8R  $0.5/1$

2 Wawa  $\rightarrow$  .8 20R  $4/6$

Ybch s .7 12R  $1/55$

Wawa h .2 17R

plum h 14.1 20L 5

Caye 13.5 7R  $0.5/1$

Wawa f .2 7R  $3/7$

Wagw h .3 17L  $2/7$

Wawa s .1 20L  $4/8$

Wagw s .3 17L  $4/7$

Wagw s 12.7 5L  $1/8$

Wawa f 13.2 10L  $6/7$

2 Waga s 12.6 4L  $6/7$

plum h .8 15R

Suta h .3 10R

Wawa  $\rightarrow$  .5 16L  $4/7$

Wagw s .5 17L  $0.5/1.5$

W h .3 8R " "

Wagw .5 9R  $6/8$

[crested caracara]

Wawa  $\rightarrow$  .5 8R  $4/7$

Wawa .5 10R  $5/7$



chase

2 kuma ♀, fm	.6	9R	$\frac{4}{7}$
2 sat ♀	"	<del>5R</del> 10R	$\frac{1}{5}$
btgw ♂	.5	8R	$\frac{6}{7}$
gbp h s	.3	8R	$\frac{3}{7}$
lepl s	11.7	20L	$\frac{5}{6}$
gfw s	10.9	2R	$\frac{7}{8}$
mama ♂	.9	17R	$\frac{7}{8}$
anne h	11.3	5R	$\frac{6}{8}$
mama h	10.5	19L	
" ♂	.3	15R	$\frac{2}{7}$
" h	9.4	15R	
2 br Ja s	8.6	18R	$\frac{7}{8}$
megwa h	.1	10R	
Bepl h	7.8	7R	
megwa	8.4	18R	$\frac{0.5}{1.5}$
anne ♀	7.2	19R	$\frac{5}{8}$
mama ♂ fm	"	8R	$\frac{2}{7}$
ftm ♂	"	2R	$\frac{1}{1.5}$

VEG samp- $\bar{x}$  distance to edge/4 u.

kuma ♀ fm	8.9	3R	$\frac{2}{7}$
2 mama ♂	6.4	15R	$\frac{8}{13}$
large mso	"	4L	$\frac{0.07}{1.5}$
mama ♂ ad	"	"	"
lepl h	6.4	20R	
btgw ♂ fm	5.8	3R	$\frac{2}{8}$
mama	5.8	6R	"
mama (3 <sup>rd</sup> )	5.8	7R	$\frac{6}{7}$
"	"	"	"
btgw s	5.8	"	"
over s	<del>6.5</del> 5.5	2L	$\frac{4}{8}$
- high thin + seet	~	mama	
gou s	4.8	15R	$\frac{5}{6}$
weat s	4.8	13R	$\frac{3}{4}$ sh
megwa h	4.4	17L	$\frac{1}{2}$ s
mama h	4.75	15L	
2 br ja h	3.6	18R	$\frac{8}{9}$
mama h	3.5	5L	$\frac{5}{8}$
megwa h	.3	19R	s



gush 2.7 20R  
 2 A 1+.05 1.8 13R 7/8  
 -muffled biga  
 mibl h .7 18R 6/9  
 gash .6 20L 5  
 plus h 0.5 8R 1/2  
 cape h .3 8R 1/2  
 ybrch .4 18R 1/2  
 soft s .2 1R 3/2000

mxd flock 1/21/93 Beauty Day!

750-810 5/20: 4380

3 Gigas ad, P FS 10m  
 3 Haka 2 immo? P FT 20  
 woman h S P/O/O/Hen  
 Bggw ble ht. 147/6  
 Sovi Sh 70 70 / 100 / 100  
 woman o ble  
 buor f v  
 2 w h s f  
 legs f

(90)

843-900

3 bagms ad P, 1 immo <sup>white throat</sup>  
 2 Haka P <sup>head tot. green</sup>  
<sup>+ bent also</sup>

FT 20  
 waves FS-20  
 rusp S 5/20: 4415  
 Sovi P/O/O/H  
 cutth o s 65 20 15  
 hawa f P 18 8

hawa P  
 gash S  
 FT 20  
 FS-10

920 (92) <sup>slate gray upper; white</sup>  
 waves <sup>breast gray eye line</sup>  
 woman S Sovi O O/P  
 3 bagw 1 ad O cwa O 90 10  
 mywa S Sura o ad S 14, 18  
 gash O wawa h elew  
 fup bggw L 4470  
 akad streh 3 b b w



Pt Count Area - "Dra..."

7414

Ac woodland

(96)

3. ~~Blq~~ 8 2 head 1 ♀ (H)

Wawa 1 (H)

Wawa 1 ♀ 2/3 s ♂ 1

Kawa 1 (H) 1

Sovi 1 5/8

#Tr 52

To H 8m

Understory - grazed shr Shr lt 2m

DE 25m

235-245

FS 3 RT 10

2 Blqwa

Oak - 7m, dense ord.

Wawa

Elev 4300

Sovi

(93)

857 407

buma ♀ 0

FS 10 FT =

Wawa ♀ 0

0/10/P

bygn ble

85 10 5

2 Wawa ble

14 6 18

Shwa s

1328V 4300

Kawa s

(94)

924

FT 20

2 blqwa 20 5 p

FS 15

1 buma ♀ 0, 0

0 P 04

4 blsi p

50 45 5

2 sovi s

8 17

Wawa s

416 4275

2 bygn 0

Wawa ♀ s

2 Wawa 10 0

ye fl s

ste 0



1000

(96)

2 btgms o<sup>o</sup> P, 1 imo<sup>o</sup> O 1 ♀ S  
 1/2 Hensa<sup>o</sup> P 1 ♀

brwa P

3 savi P P/O / Oth

bbs P 90 5 5

del P 18 8

kuwa ♀ ad P 4250

wehu P PT: 20

grpe P PS: 15

uwa S

he tao<sup>o</sup> P

stre h

rbps S

4 bhs P

2 gaja P

1035

PT 15

kuwa P ad

PS 15

uwa P ad

4200

grpe P

O/P / Oth

del

35 35 10

bbs P

7m 17

uwa S

uwa P S

(97)

spout S

se O

MILPA 2/1/93 Foggy, Cold 705-900

Mel S 1.8 18L 1/1 can 'Foggy'

" " 2.4 15L " "

gtgrachle 4.3 17R

rbps S 9.7 20R

bblg L 10.8 15L

Swiss S 11.6 12L 9.5

utfl S 11.2 17L 2 gcs

bblg S " " "



cage ♀	12.8	10L	as/ qrs
left s	15.5	2R	5/7 acc
gt gr s	"	20L	2/8 bls
yuna ♀	"	10L	5/9 " "

Interim Tanager ♂ or SUTA

Sunny

PSA 2/2/93 Foggy Cold 7:10-10:17

Begun ♂	16/19 P	2.2	10R
Begun Q	8/120	3	17/9R
left P	15/19 P	"	10R
3 Hewo s	2.7	13R	P
88: Qu	.8	9R	Grns
Grown	.8	10/9R	10/11 O
Begun ♂	.8	8R	12/14 P
BuDr imo	"	"	7/8 O
Ea H	♂+♀ 3.2	17R	4/90
left s	3.8	8R	3/43

unawa ♂	3.8	3R	2/35
lisp s	-	-	-
begun ♀	3.9	6L	6/20
2 begun	3.6	7R	9/20P
Atwa s	5.1	11L	9/17P
rbaz s	5.8	8L	1/15 u-fl
begun ♂	6.1	1R	8/120
depl s	6.3	5L	9/130
manaw ♂	.7	6L	1/35 p.p
" h	8.8	18L	O
Label 203E	10.2	18R	gnd
L or thopt 45 mm			
begun ♀	10.8	9R	17/19 P
Hewo s	"	"	13/19 "
2 " s	11.4	8L	16/16 P
begun imo	7.6	19R	5/6 bls (acc)
manaw ♂	"	"	"
begun ♀	19.3	8L	9/10P
Atwa ♂	19.4	3L	9/12P



Sunny, cool, breezy

2/3/93 LPO

717 1030

Muzak h 0.7 20L 0.5/1.5

Grow h 0.6 10L 19/15P

3 Rusp h 0.7 19L 0.5/2.5

btgus h 0.8 8R

" o s 1.3 8R

Amure f

ilefl s

3/12 0

boggn

boggn s 0.7 17R 10/30

graca h 0.9 20R

roha s 3.4 14L 9/100

ingura h 4.9 8L s

boggn h 4.7 24 3/100

WWD h 5.7 7R

Gowd s 9 2R

Mandap h 6.5 15R

graca h 6.8 20R

2 qaca s

7.6

2L

0.5/1.5

ltwch

8.6

10R

Sour h

0.5

13R

nawa o sh

7.3

8L 80 7/8

2 all h

7.8

8L

plur h

7.4

18L

bawa f o

8.3

12R 6/7 0

wawa s

5R

s

savt s

3

5L

2/3 s

ob h s

5

2/4 s

btgus >

0.7

9R 9/13 P

ingura h

10.2

16L s

(Sour h s

0.9

8L

7/8 10R

nawa o

17L

5/7 0

10no o 7/10

10.2

8R

10 all h

10.4

18R

btgus o 7/8

wawa f 7/13



kurwa mo <sup>2</sup>	10.3	6L	6/7D
gowa h	3	2R	
maweh	11.3	17L	
3Zitot's	.7	BR	1/2s
plaw h	.8	9L	
aweh	.9	12R	s
baggo h	.9	31	
lefl h	.8	12L	
unhu s	12.6	2R	s
unhu <sup>2</sup>	13.1	16R	2 1/2 s
unhu h	.5	15R	s
obfl s	.4	13R	4/20
baggo h	.3	18R	
mawo <sup>2</sup>	14.7	8R	3 1/6 D
echu s	.5	2R	1/2s
baggo h	.4	15R	
unhu	15.3	10L	s
plaw h	16.3	5L	s

kurwa	16.3	32	0.5/2s
<del>flaw</del>	.8	1L	0.5/s
unhu s	.5	4L	2 1/2 s
unhu	19.6	3L	1/2s
sbust	9	15R	[GCFL]
<del>flaw</del> BOGS	14R		[2 YBFL]
2x51	4x61	dept y/	2 10
4x151	4x121	spid	5 10
5x911	1x121	hom	3 10
3x411		3 spid	5 10
3x81		"	6 "
5x9		hom	5 "
8x211		spider	1 1/2 4 st
2x811		dept	y/ 3 10
4x1011		hom	rd 5 10
2x9111		spider	blk 3 st
5x151		hom	y/ " 10
2x71		"	blk 2 "
1x41			

(12m)



9L

3x8 1/1

4x5 1/1

4x3 1/1

4x9 1/1

3x15 1/1

3x12 1/1

1x5 1

2x7 1

4x6 1

2x7 1

3x6 1/1

1x7 1

4x20 1

1x5 1

hemp 2 y/ 10

cotop 2 bk 10

hemp 5 wh 10

luposa 3 gr up

spid 2 y/ 10

hemp 3 br 10

luposa 2 bk 10

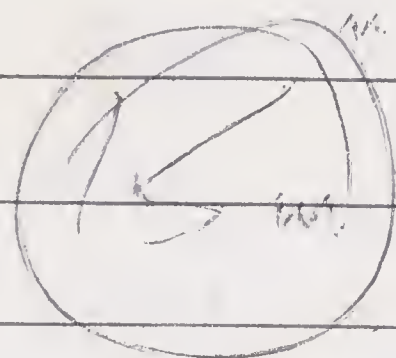
2 hemp 2 " "

spid 5 wh "

hemp 4 bk 10 up

" " bl up

" wh "



Load # Acc-pt ct. from Ocala

ASA  
1712 pt ct

7.18

bogw 110m

wave 1 → 1 ♂, ♀

bogw 1

Soft 1

other rath  
baker 1

bogw 1

2/4/98 beyond base  
to South  
trees 28

(97)

1 Pine

4 Oaks

Tr ht 5.5

DE 25

und = grs, 0.5m

325

2 - wds

2 stre 0

ingw 5

cat 0

2 - wds 0

plow 5

Acad 1

bogw 0

FS = 10

PT = 15

0/p/other dense  
open

50/10/40

10 17 2.5

ecov 40/0

(98)



99

275 15

PK = 4/5

ELBTS = 4050

O Ad Othar

90 5 5

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

15 12 3

100

950

ET-3245

9 kh. si e

FS 70

Zhusu 19.7.79

CP

the year 5

85 15

2 leaf in 0

15 10

3 begin 0. bad

ECU 4215

1900

2phases Tristage

Zinnua 07 S.P

off 12. 2/2

habe: lange, isolierte

22

contiguous patch

Shard

2. How C

Let  $\alpha = \frac{1}{2} \pi$

Smith O

new 22P

Wm. D.

vitr 0

Wm. W. W. W.

15/5/50

L. WILSON



(101)

1040  
 2 bagu... P, D 75 20 105  
 grape P 12 20 12  
 Savi D FT 15  
 Owen S FS 10  
 2 bagu... D 1225 4135  
 unang s - Partial case under  
 phur... - dk spot on throat D  
 - slight yellow around  
 throat  
 - local spot not dk.

1100

(102)

gawa 2 bagu... P... Sh  
 bagu P arawof 3bbw FT 20  
 gaja grape P FS 15  
 bhasi P hawa of P CREV: 4030  
 wawa D Savi D P/O/Sk  
 detl S bagu... S 19/13/2  
 wawa D... 4135 5020 30

2/5/93

Savage

(38)

P... Counts GFD Vigen 200  
 1) Yel Warb (1) A 7065  
 Sotl (9) (1) Ble Canht 17  
 Coye 1 Sm  
~~part~~ 1 Ro  
 Lento (1) Ble  
 Bawa (1) Ble  
 (2 Ro) 1 Ble  
 Tr Pe (1)  
 unku 1

217

(39)

1) Bawa 1  
 2 Bawa 11 Sk ybch (11)  
 Yewao 1 fac vath 1  
 wawa 1 fac 7090  
 Coye (1) S Can 20  
 Mwa 1 ble  
 rbsp (1)



(40)

831

(3)

Canha 20

65% 70

Yewal ble

ybch 1s (1)

catbird 1, (1) s

amre 1 pg

manwa 10

r last (1)

mebl 1

845

(4)

(41)

Canha 20

50% 70

~~yellow~~  
~~small~~

1 fog

spea 1

lbwa 1 wld

gbspl(1) s

btegn 1 A.C.

woth 1s

wawa 1s

manwa 110 ac

wewac 1sk

859

(6)

100% 10

roha 1 fig

oven 1

blegn (1)

manwa 1 vm

ngwa 1 str

ybch (1) 1 vm

getl (1) eat blk berry

~~beo go~~ 1 fog ant

ybtl (1)

begyn (1)

920

(6)

(43)

wawa 1s

manwa 1 fog

ybtl fog 1 fog

wawa 1s

roha 1

~~2~~ 1 fog, 1

ybch 1s

yten 1 fog

begyn 1 fog

Canha 23

75% 10

42



936 (2)

Can LA-25

45%0

Core 0<sup>1</sup> 1 S

2 yten 1 frog

unusual 1 unit

104 yten 1 frog

sqca 1 frog

unlike 1 frog

gobicheron 1

(44)

Finch-like. Olive-green wash in grey

Some light finch-like bill

light streaking black wing - 2 white

w. base

1238 X

feeding on epiphyte

216 / 93

(103)

NYO FLOCKS Don Urbano, Noronja

unusual 815 FT 10

unusual 1115 FS 20

unusual 1115 ELEV 4400

41 yten 2 102m O/P

Soot 1115 90/10

unusual 1115 15/20

2 cheta 1115

Oven S

850

(104)

unusual 1115 gca S

2 yten 1115

Soot 1115 FT 20

Soot 1115 FS 25

unusual 1115 ELEV 4500

unusual 1115 100% 20 growth 8m

2 yten 1115

thrust 1115

Up start hr. 5.4



(105)

1507  
wawa S  
Semi h  
gope P  
~~hawa S~~  
2 bawu P ad  
Hawa f P  
1st bawu h  
hawa f O  
cawa O  
dell h

MPO 2/8/93 740 cawu, 1st bawu  
Tawa f 19.9 191 18/26 P  
Hawa f " " " P  
Wawa h .5 20R S  
cawa f 17.8 10L 15/5 S  
Owen S .7 12R 3/10  
" h 6 12L 1/5

2 bawu h P .1 15L 24/250  
wawa h 16.8 17L S  
plust h 17.5 12R S  
Sawa S 16.8 10R 4/160  
bawu h 17.2 13L 15/220  
wawa h 16.8 14R S  
wawa .2 13R 7/15  
Tawa S .7 20R 10/160  
bawu h 16.2 18R  
hawa f " " 13/150  
bawu S  
bawu f  
ratt h 16.9 13L S  
huff h 17.1 17L  
shoe h 17.3  
wawa h 15.7 10L S  
wawa h " "  
Lh f S 13.8 10



[Call Tong] - call like in-fg!  
- cf word sp plate

Wahlh. 18. 11. 1912 13. 11. 1912

2 min 5  $\frac{1}{2}$

Integral in  $\mathbb{R}^3$  of  $\vec{a} \cdot d\vec{r}$  and  $\vec{a} \cdot \vec{r}$

2 blen 20

human life

2 half 0 10

China 010

She 05

beginning of

sample of  $127$   $11.5$   $12.2$

Swilk

~~20~~ 20

1000

1911

1915

Page 17

2 kg wa  $\frac{1}{2}$

9072

How do  $f(1)$  &  $g$

Ground 16

254/10

10/10/19

er flash 10

~~11/11/11~~ 11/11/11

2 Daan 6 83 176 1/25

Zurück h. 1 71

Algebra 7.9 22

~~Flu~~ plus h 6.7 6R 05/15

about 5.5 ~~20~~ 20/5

1894-1900 2 12L 5

W 5.8 32

11 3.8 BL 125

Plot 6 3.2 ml 0.5/1

2-8 4 5/16



EPO/492  
786 mto

gtmg s 1.2 1L 1/100  
~~hwh~~ 0.7 20R 13/100

to Tr + Hoff call

bug 1R

1x3 11111 Spider wh #3d

2x7 1 112 Diptera wh 3 d

3x9 11 2 Horae y/ 1 d

2x9 11111 2 Spid " 4 d

6x15 1 11 " " " "

3x7 1 " " " "

4x12 11111 20beap long bi b d

5x9 11

4x10 1

2x5 1

3x5 1

5 111

SAC 2/9/93 Sampled call 704-

wawa s 19.8 14R 2 1020

xobls .7 5L 2 1/3

wawa h .5 6L 1 1/3

wawa h 18.8 15R 2 1/3

myawa h 19.1 19R s

rthm 18.8 7R 3 1/3

bagw s 5 13L 1 1/4

over h 5 3R 0 5/3

myawa h .3 10R "

wawa h .2 18R s

gbsp h 17.8 9R 5 1/3

plur h - 20R

u l g s .7 9R s

back .7 18R s

yack h .4 18R s

gras 16.8 1R 2 1/3 <sup>cap</sup> h

myawa .6 3L 1 1/3



rthunk	17.3	15R	3 1/2
plur h	.1	3R	1/3
2 soft s	.2	11R	4/4
grca h	"	12R	1/3
man s	16.6	6R	"
swen s	"	45R	"
heav. of	.5	8R	3 1/2
kegs mod	17.1	4R	3 1/2
wing of ad	16.6	7L	3 1/2
man R	15.2	13L	2 1/2
plur h <sup>creeping</sup> call	14.7	15R	"
1st + 2nd mi	15.3	8R	1/2
plur h	15.4	8R	0 5/3
slsh h	14.9	7R	"
<del>plur h</del>	<del>15.2</del>	<del>11L</del>	<del>"</del>
white	14.3	5L	2 1/4
rfps h	14.4	9R	"
yoel =	14.3	2L	3 1/2

swen s	14.3	<del>13.8</del> 10L	1/3
gbsf	"	16L	"
ylsch	"	13L	"
slsh f	13.9	10R	4/3 all
of doll s	.1	18R	1/3
2 wgs ls	.8	6R	0 5/3
↳ direct of squeaks + guttural noises			
white ls	12.8	12L	2 1/3 one
grca s	.9	10L	1/3
swen s	11.8	7R	1/3
loft h	"	20R	" one
swen ls	9.8	11L	4/3
yoel h	.3	7L	2 1/4
plur h	.1	5R	1/3
gbsf	.3	4L	0 5/3
man s	8.8	2R	1/3
slsh f	.5	6R	1/1 all
swen h	.3	5R	1/3



mynah 74 13L 2/5  
 left h 8 16L 3/4  
 left h 8 15L 2/4  
 mynah h 6 7 10L 3  
 mynah 5 7 8 18L 2/3  
 left h 6 9 6L 3/4  
 left 8 11 11R 3/5  
 mynah 8 11R 1/1

(chips staying)

mynah 8 7 4R 2/3  
 left h 5 6L 3  
 mynah 5 7 19R 2

left h 3 8 6L 3/4  
 (Dove - esp bet. p's 1-6)  
 - leaf loss

4 others 5 3 34 3/5  
 2 ~~others~~ 5 7L 3/4  
 mynah h 6 17L 1/2

left h 7 5 17L  
 rith h 3 21 12L  
 3 others 1 8 9L 3/5  
 mynah 2 10L 1/2  
 mynah 5 8 8L 2/5  
 mynah " 3R 2/3  
 " 7 7L 1/4

18/5 1R

3x2 11 Home 3 5 d  
 3x5 11 Home 2 1 d  
 4x15 11 Home 2 9 d  
 3x6 11 " 3 d  
 5x9 11 " 1/2 d

3x11 11 Lap 10 10 d  
 5x16 11 Home 6 7 d  
 5x10 11 Spider 9 4 d  
 4x10 11 Home 3 3 d  
 2x7 11

3x6 1 1241



111

3x8 11/1

1x5 1

3x10 11/1

2x5 1

3x12

3x7 11

5x15 1

4x13 1

1x5 11

6x20 1

1x3 11

6x18 1

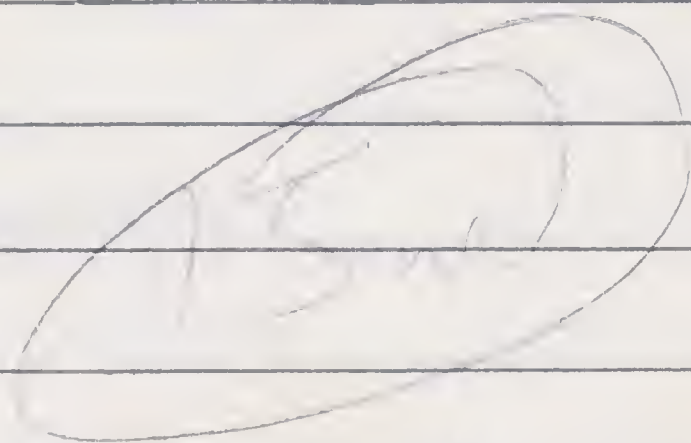
111 Dipe 2 and

Remap 10 11/1

Remap 3

Spine 4 of 1

Colap 3 11/1



Accepted

2/10/63 COF <sup>cont</sup> Summary 7:15-11:15

Monkeys 19.9 17R 1 1/2 1/2 1/2

Yellow h .5 15R

Orange h .6 19R

White h .5 5L 1 1/2 1/2 1/2

2 rows of <sup>11/1</sup> ~~11/1~~ <sup>11/1</sup> ~~11/1~~ + R. 12

<sup>11/1</sup> ~~11/1~~ h 19.9 13R

Yellow h 18.5 14L

White h 18.7 20R

Yellow h 19.2 20R

Orange S 18.4 17L 1/2 cof

Monkeys 17.8 18L 1/6 1/6 1/6

Yellow h .3 3L 2 1/2 1/2

White h .5 8R 2 1/2 1/2

Orange S .1 8R 2 1/2 1/2

Yellow S .1 8R 7/5 1/2

Orange h 10R 1 1/2 1/2

Yellow h 16.6 2L 2 1/2 1/2

Orange h .5 11L 10R



in bank	16.3	15.2
2 soft h	15.9	20R 1/2
unwashed	4	15L
plum h	3	10R
unwashed	1	13R
8 clpa	15.9	20R 1/2
8 clpa	15.1	17L 1/2
unwashed	14.9	10L 1/2
gall s	20L	1/2
unwashed	14.5	13R
gall h	21	7R 1/2
yellow	8	17L 1/2
black	3	6R 1/2
black	11.8	20L
black	7	7L 1/2
black	4	20L 13/16
black	7	7L 1/2

unwashed	15.1	52 15/23
unwashed	14.3	10L 1/2
clpa s	4	17R 1/2
depth	13.8	17L
gall s	4	9L 1/2
unwashed	2	2L 1/2
leaf h	12.7	6R
unwashed	4	2R 1/2
soft h	12	20L
soft h	11.8	20R 1/2
unwashed	4	19R 1/2
unwashed	8	13R 1/2
plum	10.8	9L 1/2
unwashed	7	17L
depth	11.8	9L
unwashed	7	16L 1/2
unwashed	9	5L 1/2



baguette 3 6R 3/4  
yba h 9.2  
weta 10R 7/8

banana 7.

3/4 en 2d 14 2.9 4L

2 shreds 4R 6L

roha h 7

Powder 8R

gawa h 16R

gawa h 15L

fruit h 20L

# napa 7L 7/8

soft 12R 7/8

baguette 13R

banana 5 17L 7/8

fruit 18L 7/8

fruit 7L 7/8

fruit 7L 7/8

baguette 5 16L 3/4

banana 7.6 7R 7/8

fruit 8 5L 1/2

fruit 7 6R 3/4

fruit 12 12R 1/2

fruit 12 17L

fruit 6.8 7R 3/4

fruit 13 1R 3/4

fruit 1 5R 1/2

fruit 5.8 6R 9/10

fruit 8 1/2

fruit 12 3/4

fruit 1/2

fruit 5R 1/2

fruit 4.8 6L 7/8

fruit 6 7L

fruit 6 7L

fruit 6 7L



*[Faint handwritten notes]*

11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-10



154

405

CD 11

Amma (1)

Chit 210

mebl (1)

Canht 10

phus (1)

Tr 6

nyuan 1

Tr 10

Wagaw (1) mebl

Wagaw 90

Wagaw 1 mebl

DE 25

Wagaw 1 mebl

DE 14

438

Wagaw

Wagaw 1 mebl

Wagaw 1 mebl

153

Wagaw 1 mebl

CD 1

DE 1

Canht 10

DE 75

DE 11

Canht 10

DE 10

DE 10

UPDATE cof com  
n 100 on white comp  
ins veg  
n count

2/12/93 'Inga 1000 ft cts Carmen  
734

yata Inga ?

CD 1

rshu ble 1

Chit 3

Wagaw 1

Canht 10

Zsoht lig 1

Tr 6

Wagaw 100 cof, 1

Tr 12

rhgs rano lig

DE 40

Wagaw (11)

p.s. 25

bluw ble d.l. foray

ghuo (1)

bhen 1

Wagaw 5 1

Wagaw 100 sh 1

Amma 1 ble 1

164



753

mawa S 1

wawa cof 1, 1 cof

yten ble 1

mawa cof 1

buwa 1

blew 1

mawa (1) brya

bogw 2

cd m

cha 3

Canht 15

#Tsp 26

#Tsp 26

DE 25

p.s. 2

(165)

819

mawa o<sup>2</sup> ble

Suta (1)

bogw (1)

awa (1)

bhen (1)

webl (1)

cd m

cha 3

Canht 16

#Tsp 7

#Tsp 25

DE 100

p.s. 16

(166)

833

bogw 1

pbfl (1)

bogw 1 cot

weta 2

3 Tewa 10

mawa ble 1

buwa ble 1

chf ble 1

wawa cof 1

wotn (1)

amre 1

Squa (1)

bogw 10 ble

bhen 200 ble

2gfu ble

Sou (1)

cd = 1

cha 25

Canht 15

#Tsp 7

#Tsp 60

DE 175

p.s. 16

(167)

nextan or feeding Tewa



852

cd m

Thgs 11/17 <sup>2 imo</sup> evot. eat Rwp

mebl (1)(1)

cha 3

sp cu (1) → 1

Canht 19

baos (1)

sp 8

ut ro (1)

Trs = 39

bhen (1) → 11 Thyeu DE 225

bsgw <sup>1</sup> Chased by buma p.s. 16

nawa (1)

buma

cloo mat 11 subs?

2 doft ble

yuta

greu (1)

yoft 1

168

908

cd = m

buma 1

cha 25

yowa <sup>1</sup> i

Canht = 20

ch  
H/O TOP (1)

sp = 9

bsgw (1) → (ble

Trs = 31

mebl (1)

~ flower <sup>p.s.</sup> 16  
of heliocarpus  
- thick  
branches  
~ seagrape

ccoo (1)

nawa <sup>1</sup> ble

bsgw (1) → 1

also bro <sup>1</sup> o  
sub imo  
wuta o  
ble <sup>flower</sup> 1/3

r bgs imo

y wta  
nawa moomy warbler

like nawa only  
w/ gray neckless

baos <sup>1</sup> + ♀

rtat 11

bbfl 1

bhen (1)

169



922

Coti (1)

Sasa o'a 1 lig

baga 2 " nt

mawa o'a " n

gawe (1)

amse 1

gija (11)

Dall lig

wawa cof

Sofl (1)

cd m

cht 3

Cankt 18

#Tsp 6

#T 27

DE 230

P.S. 16

(170)

936

gija (10)

wawa 1

unhu 1, lek (1)

bhaer (11)

baga 1 coat

(171)

cd = m

cht 2

Cankt 13

#Tsp 5

#T 25

DE 220

P.S. 16

batzid + c

949

Tewa 111 helioc flowering

wawa ble

doff (1)

bhaer (1) (1)

gawa (10)

rbps 1

baga 1 helioc

rthm 1 ble

mawa (1)

wath g 11 a tent. spat

Rber Perot 1

2.13.92 Inga Coffee Pt Count

Batzipiluz East  
Chon - Aschanka 738East side  
of Rd

Tewa 111 Inga

(same)

doff 1

wawa 1

baga 1

pteni 1

mawa 11 1/4

DE 25 P.S. 1/2

cd = m

cht 2.5

Cankt 14

#Tsp 9

#T 30

DE 170

P.S. 16

(172)

(173)

cd = m

cht 2.5

Cankt 12

#Tsp 5

DE 18



759 west side of road

roha 1

mehl (1)

wash (1)

(179) p.s. 1/2

DE 30m

cd-m

cht=3

Canht 13

~~#~~ Tsp 5

~~#~~ Tr 12

820 west side

bagu 10

then o + f

bhen o + f

bagu 1 Dye

carb 1 ble

bagu bagu oad 1 Dye

vitr o + f (1)

(175)

cd h

cht 3

Dye Can 14

~~#~~ Tsp 5

~~#~~ Tr 20

DE 25

p.s. 1/2

3

"LAS CANCHA"

chip-chip

es

bagu goriones  
mehl-sanates

838 west

bagu-pea-poo

roha 1

cd=22

nawa 1 Dye

cht=m

tenoq 1 croto

Canht 10

anne 1 croto

~~#~~ Tsp 4

bagu 1

~~#~~ Tr 16

bhen o + f 11

p.s. 1/3

wawa 1 ble

bagu Inga

(176)

sof

nawa 1

855 further west off road

(177)

mehl 11

ghuo 11

cht 2

then 1 ble

plur 1

Can 12

bhen 111

nawa ble

~~#~~ Tsp 8

cro 1

wawa 1 Inga

~~#~~ Tr 25

sof (1)

DE 100

p.s. 1/2 }



911 even  
further west

Seta (1)  $\sigma^2$  ad "traame"

gosa 1 ble CD=1

baya (11) Ch 1.5

baya 1 Can 13

cro (1) "traame" #1 sp 7

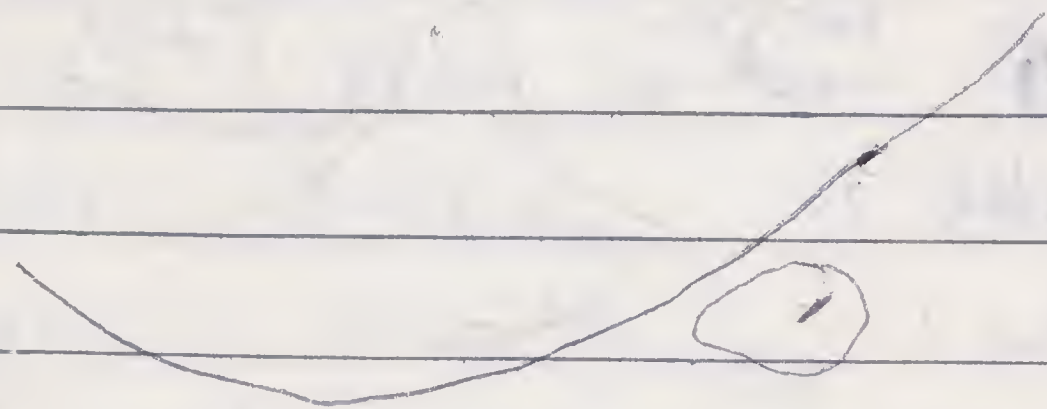
#1 522

DE 200

p.s. 43

~~phen 1~~  
~~soft (1)~~  
~~soft (1)~~

2 black shouldered Kite over road



1506

22

Sunny clear 1000

215 MPO 724-1038

3 Cbta 8 15R 7/22 ble

unwashed 9 18L S

stagg 19 12R 7/22

unwashed 5 15R S

Seta 3 3 12R 7/22 ble

Castor h 13 7L 10/15 ble

bagged 17 10L ble

stagg 18 8L

unwashed 2.2 5R

3 Cbta 1.5 3R 9/15 ble

spw h 1.9 20L

Gow h 2.8 10L

unwashed 3.8 6R

unwashed 4.3 17L

(Fusca 6.2 5L 3/10)

unwashed 7.1 18L

stagg 5 15L 7/22



stiff 5 4 20L 89.6

1st 6 5L 10 63.6

unva h 9.4 8R 2

stiff h 10.9 20R

(2 Small ball 20R)

stiff s 11.5 11L 5/12

bagu h 11.3 15L

→ listen to tape "amula"

to a red Pipe calls"

stiff 12.8 10L

stiff 15.1 5L 5/12

stiff h 13.2 2R 4/30

unva s 14.3 1L 20/10

call now of 1 stiff

stiff 15.5 2L 20/10

stiff

stiff h

ccwa h

stiff h 16.2 10R "hoble"

stiff h 17.4 7R 7/27 6L

stiff 7 8R 8

bagu 19.7 15R 7/10 6L

unva s 14R 6/12

stiff 12R

4/16 11 Spd 13 51R 10

3/8 11 " 9/10 10

3/1 12 10/10 6 9R

3/1 14 10/10 4 5/10 10

3/1 1 10/10 5 10

4/2 1 10/10 6 5/10 10

4/3 7 10/10 7

3/1 12 10/10 8 10L 10

3/1 12 10/10 4 10/10 10

2/1 16 10/10 6 10L 10

1/6 10/10 3 10L 10

6/1 8 10/10 3 10L 10

2/1 15 10/10 7 10L 10

2/1 15 10/10 7 10L 10



2/15/93  
 2/16/93  
 2/16/93  
 6/10/93

Spoken 3 9/10  
 " 2 4/10  
 " 4 4/10  
 " 7 4/10  
 Dept 2 4/10  
 Komo 3 4/10  
 Forest 4 4/10  
 Spoken 4 4/10  
 Komo 2 4/10  
 Spoken 3 4/10

Forest 3 4/10

2/16/93 6/10/93  
 left 5 0.2 17L 4/25/93  
 yama 1 1 1 1  
 left 1 5 15L 4/25/93  
 yama 1 8 1 1  
 yama 1 1 1 1  
 yama 1 1 1 1

all

chase

2 yama 1.3 15L 8/10  
 yama 1 13L 16/22/93  
 left 1.6 3L 10/10  
 yama 2.2 5L 0.5/0.55  
 yama 1 12L 0/12 rap  
 yama 3 1L 7/12 for  
 yama 1.6 13L  
 3 left 1.8 2R 17/20/93  
 2 left 1 2R  
 yama 1.7 18L 10/12 for  
 yama 1 13L 7/12 for  
 yama 1 2/12 for  
 yama 2.3 10L 4/25 for  
 yama 1.7 18L 4/12  
 yama 1.9 6L 9/11 ble  
 yama 1 18L 4/23 for  
 yama 1 4L 1/10  
 yama 3.3 10L 3/10



nama h	3.8	4L	5/15
nama f	3.8	14L	3/15
bogor h	"	8L	1/15
bogor m	3.8	20L	4/15
nama m	3.8	2R	4/15
nama m	"	2L	"
nama m	"	2R	"
nama m	4.8	8L	3/15
nama m	5.3	18L	3/15
nama m	"	"	"
nama m	5	3L	3/15
nama m	15	"	"
nama f	8	14L	4/15
nama m	8	"	"
nama m	7	2L	1/15
nama h	6	7R	1/15
nama s	"	5R	4/15

(All of h)

nama m	2.2	7L	3/15
bogor	.5	16L	3/15
bogor	"	9L	5/15
nama m	4	8L	4/15
nama m	5	20L	9/15
nama m	4	8L	4/15
nama m	"	"	"
nama m	"	"	"
nama m	6	13L	5
nama m	8.1	15L	2/15
nama m	.5	2L	1/15
nama f	.7	2L	4/15
nama s	.8	1L	5
nama h	9.2	13L	5
nama h	.7	18L	5L
nama s	"	11L	9/15
nama s	"	"	"
nama s	5	10L	9/15



manca	2	12L	7/5
banua h	6	"	
manca	9	14L	2/5
kar h	8	10L	
yaua	10.3	12L	9/5
glor h	6	14L	2/5
2kth	"	12L	3/5
manca	8	9L	7/5
anne	11.2	20L	2/6
2kth	10.6	21L	4/5
btg h	11.5	9L	10/5
kg h	3	20L	1/5
banua	12.2	15L	1/5
manca	"	5L	3/5
2kth	"	"	"
yaua	"	"	4/5
manca	17.1	15L	2/5
roya	4	15L	1/3

manca	11.9	12L	4/2
manca	12.7	12L	1/7
anne	"	"	"
lepl h	"	20L	
manca	8	13L	2/5
lepl	13.9	20L	2/7
2kth	"	"	1/2
manca	"	"	0.5/7
banua	8	3L	4/2
boja h	4	20L	
gosp h	13.7	20L	
manca	14.2	15L	5/5
yaua	"	11L	7/15
2kth	4	2L	7/5
anne	5	13L	2/2
manca	5	13L	8/5
anya h	7	20L	
plur h	6	5L	0.5/5



wawa	♂	17.1	5/15
yell	8.3	9L	5/15
"	.8	5L	7/15
chun	5	8L	7/15
coye	h	16.1	13L
wawa	♂	.4	5L 7/15
yell	h	17.5	12L
luff	5	16.8	5L 7/15
wawa	♂	17.8	10R 3/15
bogel		17.5	13L 5/15
wawa	h	17.1	10R
anne	♀	12	4 7/15
luff	5	19.8	7R
wawa	♀	14.9	14L 7/15
coye	12	.5	9L 7/15
Matti	h	8.8	8L 7/15
wawa	♀	"	1L 7/15
blun	5	"	1L 7/15

wawa	h	13.9	10L 5L
yawa	h	19.3	8R 10/15
anne	mo	.5	11L 5/15
bogel	h	.3	3L 7/15
bawa	h	.7	7L 6/15
wawa	♂	"	"
wawa			
718	LPO	Sunny warm	10/10
Hafli	h	0.3	4L 13/15 P
Ytwa	h	2.1	10L P
bogel	h	2.3	10L P
2 bnsi	h	2.9	18R
Mawa	h	3.5	16R
Matti	h	3.2	8L
Hewa	h	"	15L
2 Hewo		.8	20L 13/15 P
bogel	h	4.4	14L
bogel	mo	.3	12L 6/6 ACA



4 total  
 Hemor

Liwo	5.5	7R	7/12 ble
Tewa	8 ble	103R	9/12 ble
Ytwa	♂ P	4L	8/13P
10/5/7	3 btegr o a P	1.003	8L 6/70
	mgwa s	5.2	10R
	3 stat s	4.8	13R
	r barz P		3.2 9/12 ble
	bwadaf	4L	13R
	2 gwe	20L	
	sovi 0	4.8	9L 7/8
	anne ♀ 0	5.1	15L 6/7
	mana ♂	"	"
	wata ♂	2	3L 15/17P
	Ytvi ♀	"	9/17 3L
	depl s	.4	4R 8/13P
	grea h	.3	18L
	gca h	4.3	13R S
	bbfl	5.2	5L 29/13P
	2 wgg	"	3/6 0

obfl s	.3	8R	4/60
eatr	7.3	9R	5/15P
(y b fl)	30R		
lefl h	10.3	16L	
mgwa h			S
2 manwa h	11.5	19L	
btegr with s			7/80
sbwt h	11.7	18L	S
2 wawa 100	12.2	2L	9/14 6/12
mana ♀	12.3	8R	2/35
(gwa h)			
Ytwa h	.5	8R	10/14P
(gcf1)			
wawa h	14.6	8L	S
grea s	15.3	4L	2/25
btegr h	16.1	2L	8/100
btegr o a P	.9	3L	5/20
gimo 0	6/7	15.8	4L



Acwlo s	15.8	3L	
btgw f	"	3R	6/10A
r bar	17.5	8R	10/10P
manao	17.7	8R	4/7bl
hem o s	17.5	7L	8/10O
wwa h	18.2	9L	S
btgw h	19.2	2R	12/16P
left h	18.8	9L	
knusa s	19.8	14L	7/8O

RUGS 12R

3x15 1/11	12 Homop	3 <sup>or</sup> wh 10
2x4 1		- up mevas
4x12 11	Calcop	3 blk 10
3x6 11	2 Spider	3 <sup>11</sup> /blk 10
3x12 111	" "	wh "
2x7 1	2 Homop	3 <sup>un</sup> /blk up
4x18 1	2 Spider	3 gr 10
1x4 1	" "	gray 10

4x16 1

4x6 1

3x70 1

1x5 1

5x12 11

1x8 11

1x3 1

Spider 5 gr 10

Homop 3 wh/brown 10

Spider 4 gr 10

8 m

② actualize black comp. after entering insects → claudis

① a. systat for wk 13 <sup>6FO</sup> <sub>1FO</sub>  
 (re-copy if probe)  
 b. fix any mistakes  
 c. copy to floppy

③ create backup floppy

④ Start a new floppy

→ up-er. all of week 13 is on Red Floppy  
 - insects included

just for 6wAC



Foggy → Sunny

MIL 725-925 2/21/93

GFWS 19.5 3R 5/5 ACA

SIQU S 2 1R gnd

- rusty eye brow

SIQU <sup>of</sup> Comb white (1) S 18.8 3R gnd

- white eyebrows same song

ve fl ♀ S 15.5 3R 3/5 ACA

brja h 13.1 15 L 5/9 ACA

gcy o ♂ " " " "

bejo o ♂ 10.5 12 L circa

brja S 10.1 20R 2/1 con

~~bbja~~ " 9L 8S

3rgdo S 9.3 9R gnd

mo do S 8.4 20R gnd

<sup>cattle</sup> common egret S 7.2 10R "

bbjg ♀ 6.8 4L "

rg do S 5.2 8L "

~~g 7.9~~ 1.5 1R 1/1 con

3 caeq S 1.5 1R gnd  
ambe ♀ S 6.8 8R power line

2/23 MPO 725-1035 <sup>Sunny - overcast</sup>

Begus 19.8 9L 21/23P

Grja h 19.8 15R

Emto 19.8 13L 19/23P <sup>8/10</sup>

(Tinamou - 3 notes - " " " 3rd Tril)

Wawa h .6 17R S

Mgwa h 18.8 5L S 1/2

Wawa h .6 6R " "

Se wo S .6 18L 12/150

- squeaky faint call

Hewa h 19.8 15L 18/25P

rbaz S 18.4 15R 8/11 Be

2 Night Thrushes 17.5 16R 9/20 Be

Wawa h " 18L 1/2 S

→ in hot. when/less. for  
also HeThs-weezy



Btgh h	17.2	13R	
Mgwa	16.3	18L	0.5/1.5
wawa	15.7	5R	1/0.5
Mgwa	"	6R	1/5
3Btgh	.2	2L	9/10
Btgh Q	.4	14L	11/14
Mgwa	15.2	15L	0.5/1.5
Btgh ad	19.2	18L	10/20
Cotr h	11.5	6L	12/26
2 wawa h	.6	20L	1/2.5
wawa h lek	"	15R	
echu ♂	.4	3R	2/2.5
bregu h	.2	2L	12/22
2 gtmg	10.8	13L	4/8
2 check akhu from last time			
Mgwa h	8.3	5L	1/2.5
Bhen h	7.5	10L	22/23
Scwo h	6.8	8L	
- combined			

Towa o'ad 5.8  
~~Towa h~~ 6.2 18L P  
 (BBSO)

Mgwa h 9.5 12R 0.5/1.5  
 Btgh h 4.2 20R  
 Lbwo h 2.5 13R  
 buor ♀ 1.5 3R 3/10 O  
 Cotr ♂ 1.8 20R 15/22 P  
 btgh ad 1.2 10R 4/9 O  
 record GAWA sitting of 2 hrs ago

2 in cage  
 Cotr ♀ 0.8 16R 2/5 P  
 Degen h 1.2 15R  
 Bhen h 8.6 14L  
 hpl s 0.5 7R

Akhu wk 12 → gtmg  
 for MPO  
 insect data from Claudia  
 system  
 final time for MPO  
 tape of buor call  
 w/ g h s p



Bugs 3R

1x41	Spider	5	wh	10
3x7 1111	hemip	6	gr	10
3x8 1	Arana	3	bl	10
5x121	diptera	2	wh	10
4x6 1	hemip	3	gr	"
1x8 HHT 1	"	4	"	"
1x5 1	"	3	"	"
<del>3x8 1</del>	coleop	2	br	"
1x711	lepid	4	wh	"
3x7 1	dipt.	2	black	"
2x6111	hemip	40	br	"
2x5 1	leplavone	10	gr	"
2x10 1	arana	3	wh	"
1x3 1	"	4	wh	"

5M

13L

3x12 HHT HHT	Coleop	3	bk	10
3x7 1	2 Hemip	4	gr	"
4x10 1	2 Spiders	5	wh	"
5x15 1	2 Hemip	5	"	"
4x12 1	2 Dipt	2	bl	"
5x15 11	Hemip	gr	3	"
3x8 1	Lep larvae	5	br	"
2x8 1	2 Hemip	3	wh	"
<del>2x8 1</del>	Spider	5	wh	"
4x10 1	2 Dipt.	2	wh	"
3x7 1	Oothep	7	br	"
3x10 1	Dipt	2	wh	"
4x15 1	Spider	4	yell/bk	"
4x8 1	Lep larva	5	bs	"
3x9 1	Hemip	3	gr	"
2x5 1	2 Dipt	2	bl	"
<del>2x5 1</del>	2 Hem	4	gr	"
<del>2x5 1</del>	Spider	2	br	"



Fog → Sun, warm

704  
~~688~~ SAC 1020 2/24

~~2 gbsp~~

nowars 19.4 4R 9/5 stream

wtdo h 18.9 5L 5 2/3

lego h .9 20L 3/3

(ybor)

spark tail hummer 8 7R 3/3

del h 17.6 8R

manah 18.6 20L S

megwah 2 18L 1/3

nowa 3 17.8 7R 2/3

rthm h .6 11R S

ufgs h .5 20R 0.5/3

baan h .9 " "

plur h .2 " "

gsca h 16.7 " "

oven h 17.2 15L 0.5/3

thor h 16.9 17R 2/25

manah 17.4 11L 1/2  
(hummingbird moth!)

gbsp h .3 13R

megwah 4 6R

(bwua call actually gbsp??)

check stiles  
maybe both have some calls

maroon chest gr dove 16.8 5L 2/3

flash of red <sup>crest</sup> <sup>meat</sup> <sup>meat</sup> dove wing pattern,  
bluish appearance, tail long? cocked  
when walking

check stiles

2 Co Ki S 16.5 16R 2/2

plur h " 13R 0.5/2

ufgs h " 11R "

megwah 3 5R "

baan ♂ " 1L 2/3

oven h .4 3L 9/3

webl h .2 14R 9/2

rthecard ♂ 15.7 3R 2/30 rot



2 rusp	15.5	8R	0.5/3
2 gbsp h	15.8	8R	0.5/3
mgwa h	.3	7L	"
mana h	"	13L	1/3
plwr h	14.5	10R	5
coye h	13.8	2L	2/3
rgds	"	6L	"
mana h	4	10L	
mgwa h	6	6L	0.5/3
gbsp h	.1	9L	"
2 frem	2	11R	3/3
6 bobwhites	4	6L	8/3
mana h	13.8	11L	1/3
ytor h	13.8	15R	
lefl h	11.47	18R	
weri h	11.2	4L	
mgwa h	10.3	16R	0.5/4
mana h	.1	15R	1/4
utdo s	9.8	7L	1/3

1 fl s	6.8	2R	2/4
mana h	"	20R	
1 fl	6.2	15R	3/4
mana f	4.8	6L	2/4
utdo h	.6	20R	
mana h	.3	17R	
to rsm over kg	3.6	5R	3/5
chase	"	"	"
rbaz			
plwr h	2.7	18L	
mgwa h	.4	7L	0.5/3
lefl h	.5	19R	
hosewood m	1.8	11L	2/6
2 plwr	"	18L	
lefl h	"	8R	
frem s	3	2L	1/3
5 squibbles			
spartd. hum	"		
lefl h	"	10L	
2 sbwr h	1.6	10R	1/4




rhu h 1.2 17R  
 mgwa h .1 10L <sup>0.5/3</sup>  
 mwah 0.9 8L <sup>2/5</sup>  
 ghw h 0.1 7L <sup>0.5/5</sup>

BUGS 3R → no vegetation  
 w/m desired ht range  
 leaves fallen

13L

2x5 III Dist 2 wh d  
 6x12 I Homop 3 gr "  
 5x15 III Spider 4 di "  
 1x6 III Homop 3 " "  
 3x8 III III  
 6x17 I  
 1x5 I  
 2x5 II  
 1x4 I

10 m  


lots of scrubby or velvety leaves  
which never has insects

6/24/93 10:00 AM

2/25 106 250 11 8L ♀ 17/20 ble

1000 rhooz → 106

{ 2/10/93 745 15.1 F 5.01 5/23  
 { 2/8/93 <sup>mpo</sup> 740 <sup>5</sup> 11.5 m <sup>oak</sup> 12.01 7/20

ACTUALIZE

750 106 2/25 Sunny 1110

mgwa h 19.7 20R <sup>0.5/1</sup> S

(lots ripa activity)

btgw ♀ .5 7R 16/17 ble

bygn h. song <sup>mm</sup> " 13L

suba ♀ 19.3 13L 16/20 ble

btgw <sup>ad</sup> " " 13/20 "

plum 18.9 16R <sup>0.5/1</sup> S

yben h .2 5R 23/23 burs

mwah h 17.6 18L

mwah h .5 5R

gwa .2 8R } 12/ble  
 cawo " " } 18

mgwa h 16.8 19R <sup>0.5/1</sup> S



yfer s	17.2	13R	2 1/2 ble
r/pa s	16.86	1L	16/16 ble
amre h	16.92	8L	10/11 hli
boja	15.8	11R	8/8 hli
2 dc f/s	.5	20R	16/18 ble
plum	"	"	0.6/1.5 s
w/wah	.3	16R	
2 Tewa s	14.9	20L	
2 Bqwi	"	"	13/17 fruit
csua s	"	"	ble
wata	///		
mawq	.6	1R	2/2 cof
gbqph	"	10R	0.5/1.5
yfagss	"	5R	2/4 cof
wwa	.6	18R	s
howa h	15.3	7R	s
amre h	.1	9L	3/6 ble
wsl f/s	.6	5R	2/4 cof

2 gcah	14.2	18R	
mgwa h	13.7	10L	1/2 s
plum h	13.3	20R	
bqgws	12.8	1L	4/9 ble
bqgn h	.6	7L	
roha s	13.3	17R	8/19 ble
shwah	.4	18L	
hawah	12.8	10R	s
3 cewa			
yata	12.1	1L	2 1/2 <sup>fruit</sup> ble
3 gsf			
maw h	.5	13L	2/3 cof
boja h	.1	15R	
bgw	"	15R	17/20 ble
oven h	10.8	19L	s
bgw o/m	"	5R	9/14 ble
orja s	.4	8R	8/13 M
buswa	.2	15L	7/11 ble



brsqw oad 9.6 13R 12/16 ble

2sp wo ~ 15 15L

dcl h .3 18R

3 yhen 8.9 11R 15/15 ble

3 rlpas .5 16L 12/17

social fly n 10L 10/17

mana h .7 16R 5

2 plwr h 7.8 12L 0.5/15

1 epl h 5.5 3R

gbsp h .7 15L

nawa s .7 16L 2/35

2 roha .7 12L 15/20

b hemo 3 4R 8/12 ble

yten h n 15L

mgwa h 4.9 19R

urwa 2 n n

grepe n 20R 8/11

2 Teua n 3/6 ble

wavi ophvi - lots of white behind eye - no yellow

wadde s 4.8 6L 8/0

lro s 7L 7/8 ble

obfhs 4.6 6L 9/5 ble

dcl 4.9 13L 9/16 ble

2 soft 4.2 5R 9/13 ble

lora 3.5 17L

bggn s .7 17R 9/12 ble

rlpas .2 2R 8/13 ble

2 mbu h 2.8 18R

nawa s 2 18L 5/6 ble

~ call : ~ soft mgwa

ufgsh 1.8 20L 0.5/15

dcl h .5 19R

brsqw h 0.8 2R

gema 2 1.7 8L 7/20 ble

2 tabu h 1.1 6L

mwaw 5R 5/7

wiwa h 0.9 19L 5



- Ask Hector if he's sure re  
cof microhabitat
- change following sites from  
rus → inga  
cerba  
cane? (sibaka)

~~also~~  
toni → check tomorrow

- do changes
- do query in ACATO CORLOC  
for inga & rustic

note which fl note #  
of flocks and that flock #

- Query the flock #s for inga  
& create file

do same for rustic

Is systat on both - same  
analysis as transects i.e. Res & Migat

- Print out noting <sup>total</sup> #s of flocks  
and # of rustic singa flocks
- Make sure all changed  
data is actualized in  
Computers & all disks  
(including backups)

INGA FLOCKS 2/26/93 P/O Savannah  
habitat  
714 after Tonina

begin & begin ad A  
2 cpl 0  
left  
over 0 mywa S A/O/other  
btsa 0 yofl 2 85 5 10  
begin <sup>7</sup>rel nawa Thr 0 8 8 8  
mawa 0 A yten 0 0  
howr S Elev 3150  
wevi ple  
plur S  
sofl 0



(114)

755 - 825  
 2 btgn ♂ P, im ♂ A, ♀ P<sup>bb</sup> ~~♂ P~~ ♀ A  
 sori P, sori h  
 buma ♀ P, im ♂ P P/O/A - other  
 heta ♀ P 85 10 5  
 sota ♀ P 15 4 4  
 2 eabl P  
 btgn ♂ O  
 Hema ♂ P, ♀, no black "P"  
 2 bgn O, P  
 left P FS 15  
 mewa ♀ O FT 30  
 gwa P elev 3180  
 2 gwa P  
 msp S  
 left O  
 2 bwa P  
 rbaz P shared gwa  
 ywa ♂ P  
 2 inba h

Quexil

what is not getting recorded  
 is amount of time spent  
 in habitats that are not possibly  
 not suitable for mud. sp. flock  
 habitat. Nor are we recording  
 any vegetation variables for such  
 inadequate habitats (e.g. at least  
 90 cover). All this would be  
 to compare suitability statistically

(115)

834  
 btgn ♂ ad  
 " ♂ ad O  
 " ♀ P  
 (4) ~  
 Sori O  
 heta ♂ & ♀ P  
 very open  
 IT 10  
 FS 60  
 P/O & A  
 13 10 5  
 30 5  
 elev 3410



odometer 85672 2/28 2010

(116)

1005

21 hwa P	FS 10
huwa P	FS 20
lefl in	Elev 3210
ngwa s	P/O
bagn P	85 10
bagn f, o P	20 9
2 bhsi	

MxO Flocks 2/28/93  
Cybfl, rlpA, (119)

850	RT 10
bagn <sup>ind</sup> A chard nama	FS 40
mana o A	Elev. 3350
lefl P	P/A 10
	50 25 25
	17 8 7

(120)

in a valley between  
to saddles had w  
prominent  
ble  
veg

915

2 ybfl ble	urevi ble	
wnwa ble	befl Aca	
3 lefl s/ble	vtvi ble	
bija	2 mat ble fruit	
bagn f, o, oad ble, o cot		
mana o, s, ble		
2 ngwa s	r baz, broad bill	
bagn ble	ybch ble for	
lefl f	bemo " "	
2 gaja cot	lt do s	
2 cro ble fruit tree	amre f ble	
stat	bhsi	
plur s	FT 40	
2 ybfl ble	FS 15	
bagn ble	Elev 3300	
2 ov, o	ble/o/P	
3 gca s, ble <sup>fruit</sup>	80 15 5	
pane ?	8 8 20	



(121)

1020

FS 20

Wawa ♂ A

FT= 15

(3) bawo ♂ ad A, P, ?

Elev 3375

Zbksi P

01/01A

wawa

50 40 10

ybfl ♂

8 20 9

bawa mo ♂

lbwa P

HeTa ♂ + ♀

GFO Fog → Sun warm

708 - 1025

yawa h mo ♂ 0.1 10L 20/23/14

ybfl s 0.2 13L 14/73

ybfl h " 14L 73/73

wawa mo ♂ s 0.6 8L 7/8/14

wawa ♀ s 0.5 13L 3/8 "

bawa ♂ 0.7 7L 7/8 "

coye h 0.9 13L 0.5/1 s

wawa ♂ 0.8 32 20/22/12

wawa h 1.2 17L g

wawa so ♂ -6 19L 16/23/12

bawo s -2 8R 8/17 "

Leaka s 2.1 11L

↳ brilliant <sup>sub</sup> eye line; brownish below, clear white area in throat, legs ~~reddish~~

gnaw s -1 16L f

yawa h -3 16L 10/10/14

bawo ♂ ad -5 1R 10/11 3L

wawa ♂ ad -5 15L 9/14/12

bawo h " 2R

hafi? .9 4L 5/20/12

↳ tail long & notched - grayish head

yellow stomach

Trk on ybfl - call like ybfl 6 5L 8/9/14

bawo ♂ ad -9 15L 8/10/14

ybfl h 3.1 32 7/8/12

wawa " 8R 6/15/12

bawo h " 9/15/12

yawa ♂ + ♀ -2 " 8/9



lbwa h	.2	2L	10/23	fic
rtbeo <sup>+</sup> s	.2	"	"	23
btgw s	.4	10L	10/12	fic
gawo h	"	2L	5/23	fic
plwa mo <sup>+</sup>	.3	6L	8/23	"
nawa s	.4	12L	9	
lowa s	.8	32	9	
yopl h	.7	18L	21	
depl s	"	20L	5	fic
mawa o <sup>+</sup>	.6	8L	6	
kmwa o <sup>+</sup>	.8	17L	4	
yewa s	4.2	7L	8/9	fic
yopl s	"	8L	"	"
mawa o <sup>+</sup>	"	7L	"	"
Leabl nest on tree hole	.7	4L	12/10	fic
2 mati s	"	"	"	"
2opl s	"	"	"	"
gtwo s	"	5L	18/10	fic

kmwa s	.8	2L		
yewa s	3/8	Inga		
mawa o <sup>+</sup>	5.4	18L	8/11	fic
	"	"	"	"
				chased by yewa
yopl	.8	8R	10/25	fic
nawa s	.8	4L	5/25	fic
lowa h	.4	10L		
lbwa h	.7	12R	12/25	fic
kmwa s	.6	1/3L	6/10	fic
ororo o <sup>+</sup>	.8	16L	2/10	fic
vitro	.8	"	10/10	fic
rtbeo s	.8	16L	2/5	
btgw s	.8	19L	5/12	ble
mawa o <sup>+</sup>	"	"	"	"
	.9	"	"	"
yewa o <sup>+</sup>	6.18	9R	14/17	fic
kmwa s	.9	9R	7/10	
yewa s	.7	"	7/17	fic





lefl s	6.7	8L	8/10 Dage
sqw h	.6	5L	7/10 "
2mawa	7.5	4L, 16L	5/8 Dage 8/9 Aca
cofe ♂	.4	3L	7/8 blo
mawa ♂	8.3	5L	7/13 blo
howa ♂	.4	15L	7/4 s
ngwa s	.6	"	1/2 um
roha	.6	12L	15/5
wawa ♂	.5	15L	3/10 blo
2 ghuo h	8.3	6L	
yten h	.6	8L	
mawa h	.5	6L	4/5 s
bgw ♂ ad	.8	14L	15/18 blo
cofe " "	10.2	13L	8/5
rbgr ♂?	.5	5L	8/10 Dage
gwa h	.6	13L	1/2
ybch "	.6	"	1/4 s
rbsp	10.7	"	

uwa h	11.2	6L	
gma s	"	76L	12/21 blo
buwa s	.8	15L	7/12 Dage
mawa ♂	12.4	16L	8/12 Dage
Sqcu s	13.2	13L	14/22 Fre
brja h	.6	16L	
wawa s	.6	3L	1/2 um
bgw h	"	18L	
lefl h	14.2	5L	3/11 Dage
wawa	.2	11L	9/14 mis
2 rthru s	.1	6L	6/6 w fl
amre s	15.9	5L	7/10 blo
cofe h	"	20L	6/5/2 g s
lefl h	16.2	4L	1/6 um
rthru h	15.9	3L	
wawa h ad	16.2	4L	3/6 um
howa h	15.7	18L	
cofe ♂	16.2	4L	4/8 um



yofl 16.2 1L 5/6 m  
 bagas ♂ 0.4 2L 9/5 m  
 manna ♀ 17.5 17L 9/10 m  
 urwa ♂ 18.2 4L 9/10 m  
 left h 17.9 1L 3/10 m  
 pggm h 18.3 10L  
 annie S 18.1 16L 6/9 m  
 nowa S " " 14/1  
 left h 19.5 7L 5/5 m  
 yewa ♂ 1.3 3R 9/12 m  
 manna h 1.6 17L  
 gbyph 1.6 6L

→ change brown records!  
 708-1002 nearly grazed

3/2 WAC 708-1002  
 wfgs h 0.2 8L 0.5/2 S  
 2 soft s " 18L 3/3  
 boar h 6.3 4R 3/4 ACA  
 2 plwr " 7R 0.5/4 S

add with to list

grea 0.7 2R 2/3 S  
 2 soft " 5R 3/3 S  
 rthm 0.8 1R 1/3  
 bagas S 0.7 9L 2/3  
 grea h 1.3 8R 1/3  
 why no grea in SAC??  
 - do a query - how many this far  
 greas 5 16L 3/7 ACA  
 2 " 7 13L 8/4  
 soft h 2.2 10L  
 ybch h 1.8 7R S 1/3  
 2 bpi 2.6 6R 9/9 ACA  
 regwa h 5 5L 1/2 S  
~~regwa~~ 2 20R  
 suta ♂ 5 9R 2/9 ACA  
 grea h " 15L 1/3  
 baar ♂ 6 4 3/8  
 gisa h 4 17L S



ybeh s 2.8 12L 2/3  
 change → xmanwa ♀ 2.9 16L 3/3  
 gsa s 2.8 20L 0.5/1  
 manwa ♂ 3.2 1R 1/8 AKA  
 left s h 3 20L 6/7 "  
 nywa h 4 " 1/2  
 coy o a h 7L 9  
 wbs s 5.2 20L 1/2  
 gsa 5.2 16L 2/3  
 rbgs ♀ 3.4 16L 3/8  
 bura ♀ 5 " 7/9  
 manah 5 20R 1/2 s  
 2 stat h 4.5 18L 5 1/3  
 manwa ♂ 3 13L 3/2 AKA  
 2 mebl h 2 20L AKA  
 annel ♀ s " " 8/9 "  
 manwa ♀ 3.7 1R 7/8  
 2 ysta h 4.2 20L s  
 nywa h 1 16L 1/2 s

manwa ♀ 4.4 13L 8/9 AKA  
 left h 2 7L 6/9 "  
 coy h 3 18L  
 wgs h 4 17R AKA  
 manwa ♂ 5 3L 8/9  
 nywa ♀ 5 9L 8/9 AKA  
 no changes  
 same p  
~~manwa ♀~~ 6 2L 7/9  
 2 wbs " 12L 2/3 s  
 gsa s 8 1L 3/4  
 over s 7 2L 9  
 bura hwa ♂ 5.3 8L 2/8  
 nywa " " 0.5/1  
 manwa ♀ 4.8 8R 3/3 s  
 " ♂ 5.3 7L 7/8  
 left s 2 13L "  
 left s 6 9L 3/8  
 over 5 " 2/7



query 1, m h chew nys sp floek  
to see what's needed

amwe f .5 2L  $\frac{6}{7}$   
rbsp h+s .4 2L 0.5/1.5  
mewa h 6.2 9L 0.5/1

dry spell - lack  
of understory ??

4 mebl 9.5 12R 2/8 ACA

epser h 10.1 20L 2/8

glavas 10.6 20L 2/8

lefl s 10.8 11L 2/8

amwe f " 10R 17/18P

mebl → mewa ♂ 12.3 13L 5/7 ACA

mebl " f .6 " 6/8 "

mewa ♂ .9 2L 6/8 5/8 "

mewa h .6 15L 0.5/1

gbsp h .8 18L "

mewa h 13.2 15R "

amwe f " 20R 3/6 AC

2 mebl s .5 2R 8/0.5

lefl .7 22R  $\frac{4}{7}$

2 rrat .2 20R s

cepe 12.8 2L 0.5/2

mewa f 14.3 9L  $\frac{3}{8}$

lefl s 13.9 18L  $\frac{6}{7}$

BTGW's ??? BAGN ???

WMA ???

wach 14.5 20R  $\frac{1}{2}$  s

gbsp s " 3R 0.5/1

Amo 15.1 7L  $\frac{2}{8}$

weri s .2 3L  $\frac{1}{8}$

lefl s 14.8 14R  $\frac{2}{2}$

ybch s .7 16R  $\frac{4}{7}$

" h .9 20R  $\frac{1}{2}$  s

mewa ♂ 15.4 2L  $\frac{6}{8}$

mewa s " 22R  $\frac{1}{2}$

lefl s .5 18R  $\frac{2}{2}$

→ same sp as "wit" of yesterday?

10 distance long - "wit" - tail 10 ga



not a lot of hawks  
in Aca. canopy

juv h	.5	13L	7/8
coy h	.7	18R	0 5/2
manu o	16.2	8R	7/2
amre f	17.3	3R	0.5/1
coy s	16.9	3R	0.5/0.5

lots amount of cutting  
bet. 17-20

juv h	17.7	16L	
left s	.5	16R	1/8
manu o	18.2	17L	4/8
coy h	.7	9L	0.5/1
blw s	.7	4R	1/2 d/1 foray
manu o	19.9	13R	0.5/1
manu f	.4	4L	3/5 AC
amre f	.4	"	"
bggn h	.5	6L	
left h	19.9	5L	1/2
manu s	.8	7L	1/6 AC
grea s	.9	6L	3/6 "

Heater - edit systat work in wk 14  
change wtd  
E - enter wtd sp. flock data

Exclosures - Acaeda #4 ~~Exp~~ <sup>Control</sup> 3/2/98

Orthop	6	br	43
Coleop	5	br	38 gr
Lepid	10	gr	56.5 gr
Orthop	4	br	
Spider	2	rd.	

II Experiment

Spider	3	y/	38 gr
Dipt	4	br	
"	3	gray	

3/3 PSA Sunny/warm 706

b+gw s	4	
bggn	6	
lego im	9	2.5 MR
3 baer	9	Oak
2 buor	on baer im	patchy black on head
2 f's	lots of white	orange body on underparts



Veg sampling - record elevation  
 defm. 2 ♀ baor's  
 Suta in mod same loc. Chased baor 9/10  
 defl s " " 18/10  
 2 acwo 3.1 18L 12/15 P  
 defl 3.1 19R 11/12 0  
 cabl s " " 12/12 0  
 wing h 3.5 17R 0 6/7  
 yfqs h 4.3 11L 1/1 grs  
 rbarz 5.4 1R 4/12 0  
 magna 6.9 9L 1/3 s  
 magna ♀ 6.7 8L 2/3 pip  
 defl s .8 0.0 4/12 0  
 area 5.9 13L 1/3 s  
 fem ♂ 7.8 5L 3/4 s  
 p of h 8.5 18L 0.5/1  
 beta ♂ & ♀ 9.1 2L 9/9 0  
 2 Hana s 8.8 15R grs  
 2 acwo 10.4 16L 12/18 P  
 btgw in 16.3 3R 8/11 P

Skip Pond.  
 Don Blunt  
 Jane Barner

82 + Silvia  
 folks in D.F.

btgw 17.3 7R 6/8 P  
 defl s .8 20R ACA 2/5  
 bgen .8 5L 8/14 P  
 hewa h 18.8 9L 1/16 P  
 ACWO s 19.3 2L 8/10 P  
 nsp s .7 20R grs  
 btgw ♂ .8 7L 10/15 P  
 2 " " im .7 6R 8/12 P  
 hewa ♂ ad .8 9R 9/12 P  
 " " " .5 7L 6/9 P  
 beta ♂ .6 5R 1/10 P  
 ♀ baor or baor <sup>yellow throat, under tail white belly</sup> .8 9R 1/12 P  
 934  
 Bugs SAC 48  
 3x9 4/11/11/11  
 4x13 1/1  
 2x8 1  
 3x3 1  
 3x8 1  
 Caterp 4 wh/61 10  
 Spider 3 x/1 "  
 " " gr "  
 Homop 3 wh "  
 3x8 1



852-854

2x31 Spider 4 wh lb  
 4x811 Horn 6 gr/br-st  
 2x61  
 5x101 10 M  
 3x61

1x3 111

As of 3/3/93:

Flocks on:

Low = 52

Mid = 46

High = 23

System changes to make re

buma → gbsp	LPO	8,550
Co F = 12 weeks	SAC	9,614
QFO = 4 weeks	397	WACI-10 4,359
	693	4,420
	990	4,447
	919	
	1373	

redo  
 10 wk  
 13 wk  
 14 wk  
 15 wk  
 16 wk  
 17 wk  
 18 wk  
 19 wk  
 20 wk  
 21 wk  
 22 wk  
 23 wk  
 24 wk  
 25 wk  
 26 wk  
 27 wk  
 28 wk  
 29 wk  
 30 wk  
 31 wk  
 32 wk  
 33 wk  
 34 wk  
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 86 wk  
 87 wk  
 88 wk  
 89 wk  
 90 wk  
 91 wk  
 92 wk  
 93 wk  
 94 wk  
 95 wk  
 96 wk  
 97 wk  
 98 wk  
 99 wk  
 100 wk

woody shrubs  
 16-18 R)

herbaceous shrubs

SAC	WAC	difference
green 20/622	48	140-62
ngwa 97-98	143	119 162
wwa 69-669	45	41 46
oven 54	123	17 180

Exclusives 17 BXP 3/4/93

Horn 3 wh

11 Coleopt 2 1/1

111 Horn 3 blk

25 Eggs 1 mm ea

dipt 2 gray

3prn 1/1 5

Horn 3 gr

11 Coleopt 2 br

Spider 3 br

Horn 2 2 gr

11 Spider 2

Horn 3 br

Spider 1/1 2

Horn 2 blk

Spider 7 gr

11 8

Spider 2 blk

131.4

22 JAN.



Med Plocks 3/8/93  
Altitude

750

(125)

abund P 85 40  
2 Scura P 85 45  
heta P ELUV 4170  
2 bhsi P P/L  
3 rbar O nest in oak 65 35  
rps P 15 8  
graw P  
acw P  
2 r s thick-  
gaw P  
bqun S  
inhu O  
bbar  
ccro  
bbso  
hepo  
2 ybot P  
Stygod O, & S wana P O  
2 wqwa S  
Phar S

SLOPE = E

roha

wawa S

wawa ind O

defl

bygn S

hows S

ybel - with thin belly  
gray breast  
red bill  
no eye ring

wep

(waf)

VBG SAMPLING FOR RSA - 70 coverage

Song of Pictus

(waf)

PT 30

PS 15

(126)

847

ELUV 4160

bqun ind O, & ble O/P

Sovi of songing 65 35

hawa P 9 20

2 wqwa S

wana O

2 Scura P

2 rps S

rbar O

wawa S

well developed

2 bhsi O

ble shir layer

rbar ind S

2 defl ble

diversity function

lip S

of ble vegetation

wawa S

& presence of

wcha O

distinct stratum

wawa

- 70 coverage on

blind O

another variable

ccw O



15:30

Loss

Locator # for flight

My transaction #

Feeder's arrival coinciding w/ our S. Camp

Hiz arrival coinciding w/ more mid-flight

in the right  
expected

3/6 Mod Sp. Plocks Quesal

Dove Song ~ ~ ~ bow-wow-wow

bow-wow

- Sometimes ~~there~~ a third shorter note. Very clear, a/t to recorder

- two calling to each other

Cock's King Song - like a high warbley rbps

735

(133)

FT 15

Savi P

PS 35

bggn P, O

ELEV 3350

mana A

O 1 P 1 A

mana O A

85 10 5

bggn O

8 18 3

mana P O

Savannah type unk

heta O

Slope S

zeabl O

depl A

815

Savannah (134)

Slope S

bggn O

2 B (U) O O

rbar O chase

2 Ac W O P

2 bggn O

mana O songing

bggn P

mana O

bggn

O 1 P  
95 5  
9 22

alt 3275  
FT 15  
FS 20



Audubon interview - weekends @ home?  
 look Book of CA for Or. bil. N. Thrush  
 - better picture

LOS QUINCHES (135)

873 RT 15  
 4 giga 0 PS 20  
 1 howo 0 Elevat 3275  
 1 baan 1 S 6/P/Other  
 1 core 1 S 70 15 15  
 2 stat 1 0 8 15 5  
 1 mawa 1 S, mawa  
 1 left A dev. Shrub  
 1 buwa 1 0 layer  
 1 mawa 1 S - edge in pasture

955 (130)  
 1 buwa 1 0, 1 1 0/A/P  
 2 left A, S 60 30 10  
 3 mawa 1 A, 1 buwa 1 A elev. 3325  
 1 mawa 1 A RT 30  
 2 giga 1 A PS 10  
 2 giga 1 0

S.O.  $\leq 8m$  S.P.  $\leq 10$   
 T.O.  $> 8m$  TP.  $> 10$   
 included in shrub categories

sort A  
 2 msp 5  
 avaro

Vegetation Sampling MPO  
 3/8/93

0-1 R L  
 Tg 20 10  
 Ss 55 80  
 Ms 20 5  
 Ts 5 5  
 T.O. 15  
 T 20g 55  
 175

1-2 R L  
 Tg 10 5  
 Ss 40 30  
 Ms 30 50  
 Ts 20 15  
 T.O. 25  
 T.P. 25 115



2-3R

Tg 5

Ss 10

Ms 5

T<sub>2g</sub> 10

T<sub>2g</sub> 70

T.P. 15

SP 5

L

10

65

15

10

T.O. 30

3-4R

B.g. 5

Sg 5

Tg 25

Ss 25

Ms 30

Ts 5

T<sub>2g</sub> 5

T.O. 15

3-4L

5

5

10

35

20

Ts 10

T<sub>2g</sub> 15

T.O. 50

TP 15

SP 5

4-5R

B.g. 5

Tg 10

Ss 30

Ms 25

Ts 15

T<sub>2g</sub> 15

T.O. 50

T.P. 25

L

5

10

55

10

10

10

30

10

5-6R

Sg 5

Tg 25

Ss 50

Ms 10

Ts 5

T<sub>2g</sub> 5

T.O. 40

TP 10

5-6L

30

60

10

10

20



6-7R

Tg 20  
Ss 65

Ms 5

Ts 10

TO 25

TP 25

L

30  
50

10

10

55

20

7-8R

Ss 70

Tg 30

TO 20

TP 40

L

60

25

Ms 5

Ts 10

TO 35

TP 15

8-9R

Ss 70

Tg 20

Ts 10

TP 45

TO 10

8-9L

65

15

10

10

10

Ms 10

9-10R

Ss 55

Tg 15

Ms 10

Ts 20

TO 45

TP 35

L

70

20

5

5

30

60

10-11R

Tg 20 90 80

Ss 35

Ms 25

Ts 20

L

25

50

15

10

70 70



11-12 R

L

Bg 5

Ss 30

Tg 10

Ms 20

Ts 35

TO 75

30

15

30

25

70

12-13 R

L

Ss 40

Tg 15

Ms 30

Ts 15

75

40

10

25

25

TO 65  
TP 25

13-14 R

L

Ss 85

Tg 15

Ms 20

Ts 10

SP 15  
10 50

Ss 65

Tg 15

15

5

TP 10  
TO 55

14-15 R

L

Ss 70

Tg 20

Ms 10

TO 40  
SP 20

Same

TO 65

15-16 R

L

Sg 10

Tg 50

Ss 30

Ms 10

TO 60

5

20

50

15

Ts 5  
TO 30 SP 10



16-17 R

L

Ss 55

Tg 20

Ms 15

Ts 10

TP 25 TO 55

Same

TP 20 TO 70

17-18 R

L

Ss 5  
Ss 40

Tg 25

Ms 15

Ts 15

TP 25 TP 5

35 25

10

35

30

TO 75 TP 10

18-19 R

L

Ss 55

Tg 25

Ms 10

Ts 10

TO 50  
TP 10

65

25

5

5

TO 80

19-20 R

L

Ss 40

60

Tg 15

20

Ms 15

10

Ts 20

10

Tg 10

TP 50

TO 35

TP 35

actualize - Floclac, Flocomp expirsec

- Re ~~copy~~ MPO into floppy  
and actualize black MPO

- Re do systat MPO 14 R

- should no longer have "unk"

TRANSACTION # 0684198

3/10 SAC Cloudy 718

19.9 10R 6 Nawa 1/2

Bigwim .8 11R 2/3

amre 9L 1/3

nawa 10R "



mgwa h	18.8	7L	1/3
spth h	19.2	5L	3/3
oven h	18.9	9L	0.5/3
Li hermit!	.9	1R	2/3
hem ♂ & ♀	.6	5R	1/3
2 in bu h	17.9	15R	
wlgs h	18.1	10R	0.5/3
gbsp h	"	"	"
maua h	18.9	11R	2/3
amre & s	17.8	1R	2/3
lego h	.7	18R	2/2
spwr h	.7	"	1/2
wt do h	16.8	15R	
weta ♀ s	17.6	20R	2/3
meg d	bluish long tail .3	0.0.	1/3 bluish
gbsp h	.1	14R	0.5/2.5
high, weak thrush-song - 2-note			
song 1st intro + short, 2nd fluty			
- migratory thrush? or oven			

2 plwr	16.8	7R	1/2
grea s	"	19R	2/2
brsq wood	.8	10L	2/3 1st larvae
glosph	.7	19R	1/2 s
sqcu s	"	7R	2/3
plch h	"	12R	1/2
befl h	15.6	9R	2/3
mgwa h	14.8	4L	2/3
glosph	.3	5R	
brsq wood	.3	11L	2/3
maua ♀	.1	6L	2/2
mgwa h	13.7	5L	
maua h	12.8	2R	2/3
mgwa h	.8	10L	0.5/4
"	10.8	4R	"
2 rtat	11.1	20R	1/4
oven h	10.9	15R	9/9
maua ♂	10.2	8R	1/3



hem & s	9.8	7R	$\frac{2}{3}$
ngwa h	<del>5.3</del>	9L	
phor h	5	16R	$0.5\frac{1}{3}$
Bepl 15 h	2	5R	$\frac{2}{4}$
Begwot s	8.9	4L	$\frac{3}{4}$ cro
ngwa h	1	19R	
left s	7.2	14R	$\frac{2}{4}$
manwa h	6.8	8R	$\frac{2}{4}$
ngwa h	7.1	16R	$\frac{1}{4}$
akwe h	6.6	11R	$\frac{3}{4}$
left h	4.1	6L	$\frac{3}{4}$
phor	4.5	7R	$0.5\frac{1}{4}$
manwa	4.4	2L	$\frac{2}{4}$
" ♂	5	2R	$0.5\frac{1}{3}$
ngwa	5	7L	$0.5\frac{1}{4}$
	2	1R	$\frac{1}{4}$
gbsp	1	10R	$0.5\frac{1}{4}$
begw s	"	4R	$\frac{1}{4}$

manwa & s	7	8L	$\frac{3}{4}$
left h	3.4	14L	$\frac{2}{4}$
rthm s	"	2R	$\frac{3}{3}$ yf
manwa	2.6	9L	$\frac{3}{4}$
2 bopl	1.3	7L	$\frac{3}{4}$ cro
over	0.7	6R	$0.5\frac{1}{4}$
utwah	0.5	4L	
ngwa h	0.3	11R	
ccro	0.3	15R	
rbsp	0.4	17R	$0.5\frac{1}{2}$
rthm h	0.4	7R	
724			
Sweet warblers			
- song of ngwa, wawa			
actualize black comp veg soup			



Bugs 5R

6x8 HT

3x8 11

5x10 1

4x8 11

1x5 1

2x8 1

3x6x10 1

4x10 11

2x6 11

4x12 11

3x9 1

5x12 1

2x4 1

4x8 1

211 Homop wh/rd 4 10

Spider y/ 5 "

Orthop gr 10

Spider wh 5 10

Homop gr 3 "

11 Spider gr 4 "

111 Cdeop gr 3 "

Spider gray 3 "

Homop gr/or 4 5

Homop larv or 6 10

Homop wh 4 10

25 m

15L

3x8 HT HT HT

1x5 HT HT HT

3x12 11

6x14 1

2x2 1

3x4 1

6x12 1

4x15 1

also a very short melodic "chick" intro note; ascending whistle; note; final note

3111 LPO

sbw h

111 plw? - resident night? h  
wren? through? ngwa song?

ngwa h

2 plw 5

btgw ad

bgw h

shw h

whw h

grwa h

ngwa h

Homop wh 3 10

Spider br 3 "

Homop gr 5 "

Spider gr 8 "

9 m

708 Fog -> Sun

19.7

12R 0.5/1.5

2012 0

19L 0.5/2.5

13L 0.5/2.5

14L 6/12 0

8R

16L

8L

20R c



wawa h	16.5	9L	
ybeh h	17.4	15L	S
bbfl s	.4	7L	$\frac{8}{8}$
2 rtat	.2	0.0	thru over them
2 brja h	16.8	5R	
hawa s	.8	15L	$\frac{7}{13}P$
plur h	.2	10L	S
mawa o	.4	20R	$\frac{2}{7}O$
wyua h	15.9	13L	$0.5\frac{1}{2}$
2 mati s	.4	20L	$\frac{16}{17}P$
maweh	.2	17L	$\frac{2}{4}S$
rtat h <sup>2 pairs</sup>	14.5	10L	S
2 plch h	13.5?	15R	
sbur h	14.8	9L	$0.5\frac{1}{2}$
gowa h	.5	8R	$\frac{7}{10}P$
2 mawa o	.4	20L	$\frac{3}{3}S$
loki h	13.2	8L	
wyua h	"	8R	$0.5\frac{1}{1}$

4 rtat h	13.8	18R	S
sovi s	.9	6L	$\frac{8}{18}P$
bagu o	.7	16R	$\frac{8}{20}O$
"	.1	18R	$\frac{10}{16}P$
2 mawa s	.3	7R	$\frac{2}{2}S$
stem o	13.1	2L	$\frac{2}{2}$
sqen s	12.4	8L	$\frac{5}{7}Cecrop$
bagu o	.6	13L	$\frac{8}{10}O$
wyua h	.1	18L	S
(Cost)			
mawa h	.1	16L	S
obfl s	11.5	14L	$\frac{5}{8}ble$
mawa h	11.4	19L	S
bagu o	10.1	10L	$\frac{10}{17}P$
mawa f	9.7	3L	$\frac{9}{5}ble$
gowa h	.3	18L	
(ybf)			
roha s	7.5	17L	$\frac{7}{15}P$



growa  
plus 2

mgwa

rthua s	8.6	2L	
mama h	7.6	18R	
growah	4	20R	
baguoa	6.9	2R	8/20P
" ?	2	2L	8/10 Aca
uado h	3	15R	
mgwa h	5.8	20R	25/2
Zobfl s	4.4	6R	7/80
baguoh		20R	
bluuu	7R	3/5 in	
mamaoa	"	3/80	
buuuaoa	8R	4/80	4.2
over h	17R		
zrtat h	"	0.5/2s	
voha h	1.8	15L	
baguoh	1.8	19L	
hewa so	.9	15L	11/15P
buuuaoa	.8	9L	5/70

1003

BUGS 15L

3x5 IIII	Homop 3 br up
3x16 IIII	Spider 6 gr d
2x4 IIII	" 5 wh d
1x3 IIII	Orthrop (Mont) 32 gr u
4x16 II	Spider 5 gr d
3x9 II	Homop 2 br d
1x5 I	2 Snail 23 br d
2x3 I	Spider 3 gray d
2x6 I	14m

7540 ft

MYO FLOCKS (14)  
(Brocreper)

WINDY DAY

3/12/92 2 San Crist  
to: Rock search, record  
only time spent in P/O

1/11 Hema P, 0/11 Tawad P, 0/11, 1/11 (3)

11 Savid h	Sh Jay	Chupidomas
olwa		chest narrow
thet		in gray; yell
11 cwa P	11 waga	red in stripe on
11 r. fwa P	11 uhu	chest, gray head
gale	deeper	"uhit" notch tail
	than left	"Yong" no eye ring



GOODIST  
53  
ORIENT 208

FT 45  
FS 40  
- mostly thru  
solid pine

P/O  
70 30  
18 12

sanamah

~~grape~~ swo P

SLOPE N

" banana m P, P

Elev 7575

flock covered much area staying  
put in marshab's w/ sign Oak

(yejugo)

Heater - 2 more ~~Ana~~ <sup>coron.</sup> ~~Ana~~ <sup>coron.</sup>

1000

(151)

FT 15

3 blue P

FS 50

2 Anaba ble

Elev. 8400  
8000  
at Heater

2 He Ro ble

3 Un Jay O

P/O/M open  
scrub

Ph warbler M

55 40 5 North

- sweet high  
warble

15 10

Mo Tr

1155

P/O sanmah

11 Clusa O

50 50

2 <sup>sari</sup> G ~~Cl~~ <sup>ble</sup> ble, O

22 18 - tall  
oaks

Swo P

Elev 7580

3 Towd O

" " " P

Su Thr gnd

Tu Fl

PT 20

Waff

PS 90

grape P

(152)

hawa P

rhua O

Mo Tr O

hawa P

3/13 Mas adelante  
(Clark Sparrow?)



cold, cloudy day

891

(153)

wawa P

P / 0 / 1/2

Tawa H O

25 25

Tawa ad P

20 30

Tufl P

25 15

Grle P

FT = 15

wawa P

FS = 60

Un Ja P

ELEV 7650

N

916

(154)

wawa P

N

Tufl P

FT 5

wawa P

FS 15

Grle

ELEV 7675

~~2 wawa P~~

P / 0 / 1/3

2 wawa P

55 35 10

whar O

20 17 7

RC RO

919

(155)

wawa ble

P / 0 / M

25 10 10

2 Tufl ble

60 20 20

2 Kero M

ELEV 7675

3 Tawa O O, II O, O

FT 15

Grle

FS 25

2 rsl P

N

Hawa P

Hagl ble

gthar O

wawa P

1040

(156)

Hawa P

2 Br Cr

P / 0 / b

Tawa P

Mahum. P

9055

3 Ye Ju P

Hagl P

1886

olwa P

FT 15

Grle P

FS 40

ELEV 7625



(157)

1100  
 4/6 Newa 2.0 ad  
 4 Towad 3.0 1/4

Cawa  
 Savi /  
 3 ~~Blue~~ f  
 1st 1 R  
 How 1/5 close  
 2 grape P  
 1/2 Newa ble/s  
 1/2 mvi P  
 1/2 warb P  
 5 olive warb P

- check call & song 2 warb

Emp. ~ ~ when 2 if so, change  
 same as b4 all bread recs

AT 25  
 FS 5  
 4/10/5. sunny  
 P 10  
 80 20  
 18 9  
 N

CHANGES SIGN to 1000

3/15 PSA sunny, cool 705  
 4/8 Ca Eq s 1.1 2L 9/18 P  
 Savi s 3.1 20R 2/100  
 Nywah 3.7 20R 0.5/1 s  
 ~ ~ ~  
 2 Rusp  
 1/2 mvi 1.4 15R 8/13 P  
 1/2 Coda 1.4 ~ ~  
 2 Bblg s 4.3 6L 0.5/1 gss  
 3 Bja s 5.4 15L 9/21 P  
 2 Rusp s 1.2 12L 0.5/1 s  
 1/2 fls 5.8 13L 0.5/1 s  
 6 Coda 5.5 3R gss  
 1/2 fl h 5 10R  
 1/2 Beta s 6.8 5R 8/90  
 1/2 Bja s 5/90  
 2 Bja s 3.6 2R 9/100  
 2 Bja s 6.8 5R  
 mvi 5.9 9R 2/80



brwa s	<sup>68</sup> <del>28</del>	4L	<sup>7</sup> 90
gwa h	7.2	3L	<sup>16</sup> 180
2 detro s	8.3	9L	0 <sup>2</sup> / <sub>8</sub>
depl h	8.8	20L	0
vnad s	-	14R	<sup>2</sup> 100
scad s	9.2	14L	<sup>2</sup> 90
bagu mnt	-	-	<sup>6</sup> 90
yopl h	8.8	20L	0
bagu s	9.1	0L	<sup>9</sup> 90
2 nsp s	11.8	2L	9.5
btgw s	16.5	2R	<sup>7</sup> 115

908

SEA SAMPLING

<sup>16</sup> 1000 h +, 12	<sup>19</sup> 950 +, 10, 13	<sup>18</sup> 900 +	<sup>17</sup> <sup>+3, 4, 8, 9</sup> 250 <sup>9</sup>	<sup>8</sup> 400 +, 2, 3, 5, 15	<sup>7</sup> 350 +, 7, 8	<sup>6</sup> 300 +, 4, 5, 6	<sup>5</sup> 250 <sup>1, 5, 7, 10</sup>
990L +, 7, 11	40 +, 12	890 +	40 +	390 +, 11	40 +, 8, 9	290 +, 13	40 <sup>1, 5</sup>
980R +, 10	30 +	80 +, 9, 10, 12	50 <sup>+7</sup>	80 +, 3	30 + <del>10</del>	80 +	30 0.5
970L +	20 +	70 +	20 <sup>+9, 12</sup>	70 0.5	20 0.5	70 <sup>0.5</sup> 6, 10	20 +, 10
960R +, 5, 10	10 +	60 0.5	10 <sup>+7</sup>	60 +	10 1.0	60 +, 8, 9	10 <sup>1, 8, 10, 12</sup>

<sup>16</sup> 800 +	<sup>15</sup> 750 +	<sup>14</sup> 700 +	<sup>13</sup> 650 +, 8, 10
790 +	40 +	690 +	40 +
80 +	30 +, 7, 8, 12, 14	80 +	30 +
70 -	20 +	70 +, 12, 15	70 +, 8, 11
60 +	10 +	60 +	10 +, 4, 10, 11
<sup>2</sup> 600 +, 9, 12	<sup>11</sup> 550 +	<sup>10</sup> 500 +	<sup>9</sup> 450 +, 4, 8, 9
590 +	40 +	490 +	40 +, 4, 5
80 +	30 +	70 +, 8	30 +, 7
70 +, 7	20 +	70 -	20 +, 7, 8
60 +, <sup>3, 11</sup> <del>12</del>	10 +	60 +	10 0.5



<sup>4</sup> 200 + 4	<sup>3</sup> <del>150</del> + 7	<sup>2</sup> 100 +	<sup>1</sup> 50 + 3, 6
190 1.0	40 + 10	90 + 13	40 + 6
80 1.0	30 +	80 +	30 +
20 1, 9, 10	20 + 5, 8	70 +	20 + 8, 11, 12
10 +	10 + 1, 2, 4	60 +	10 + 1, 9, 11

20's of  $S_g/T_g$  depend on grading

19-20 R

$S_g$  70

$T_g$  30

$TP$  25

95

5

$60$

18-19 R

~~65~~ 5

$S_g$  80

$SS$  5

$MS$  5

$T_g$  5

$TP$  25

L

95

$25$

17-18 R

L

$S_g$  95

97

$SS$  5

3

$TP$  40

$30$

16-17 R

L

$S_g$  100

100

$TP$  30

$35$

15-16 R

L

$S_g$  97

90

$SS$  3

10

$TP$  5

$5$

14-15 R

L

$S_g$  65

~~90~~ 85

$T_g$  35

5

$TP$  25  
10 10

$SS$  5  
15.5 - 50  
 $TP$  10



13-14R

Sg 90  
Tg 5  
ss 5

TO 5  
TP 10

L

85  
5

TS 10  
TP 10

12-13R

Sg 80  
Tg 20

TP 30  
TO 5

L

70  
30

TP 40  
TO 5

11-12R

Sg 95  
Tg 5

MS 5  
TO 10  
TP 15

L

90  
10

TS 15  
TP 25

20-11R

Sg 95  
Tg 5

TP 15  
TS 5  
TO 5

64  
L  
Now  
~~After~~

80 60

Bg 15 5

ss 5 35

TP 5

9-10R

Bg 10

Sg 85 45

ss 5 50

TO 25

ER

Bg 15

Sg 80 50

ss 5 50

TO 25

8-9R

Sg 80  
Tg 10

ss 10  
TO 15

L

25  
50

75

TO 75  
TP 5



7-8R

Sg 50  
Tg 45  
Ss 5

TO 5

L

60

30

10

TS 5  
TO 10  
TP 20

6-7R

Sg ~~35~~ 40  
Tg ~~55~~ 50  
Ss 10

TO 15

L

40

35

10

Ms 10

Bg 5

TO 30 TP 10

5-6R

Sg 60  
Tg 50  
Ss 10

TO 25

L

40

40

TO 50  
Ss 10

Ms 10  
TS 10

4-5R

Sg 80  
Tg 15  
Ss 5

TO 35  
TP 5

L

10

80

10

TO 5

TP 30

3-4R

Sg 15  
Tg 65  
Ss 10  
Ms 5

TS 5  
TO 25

L

10

80

5

Bg 5

TP 30

B

2-3R

Sg 25  
Tg 75  
Ss 5  
TO 15

TP 10

L

35

65

Ms 5 TO 15  
TS 5 TP 15



1-2 R L

Sg. 75 75

Tg 25 20

TO 20  
TP 20

SS 5  
TP 15  
TO 5

0-1 R L

Sg 65 80

Tg 35 15

TO 10  
TP 10

SS 5  
TS 5 TO 20  
TP 10

### MILPA VEGETATION

0-5 old stalks cut/grazed to low density

5-10.5 " " completely cut - ~~cut 8~~

10-13 was tall grass 54 at 9 → moved to shy 12

13-15.5 always shy although has been mowed

011 52 ~~300~~ 967-30532 Rosauto

" " 30189-FAX

Scheduling - Home, Weekends

First Aid Certificate

My Status - Red Cross

Mary Hitchcock

10:00

Plocomp

Shrubby + veget

PSA

veg camp

MIL 3/16

700

Reg → Sun

3 gtgrs 4.5 5L

1/1 2nd

(Cagey - breeding plumage)

amke s 8.8 18R

17/1 em

- only 2m stalk 1 standing

gtgr s 10.1

20R

gnd

3 cagey 10.5

"

"

2 " 12.2

17R

gnd

same

"

20R

"

grca 15.5

16R

2/6 ble



anne of a denary & very intensely  
Milpa veg. cont'd

15.5 - 16.5 O/R → arroyo / corn  
10.20R → corn

19.5-20 + lgr.

left 5 15.5 1R  $\frac{3}{6}$  aca  
cape had 17.5 3R  $\frac{0.5}{2}$  lgr  
(gr blue bean)  
phvi 19.5 6R  $\frac{4}{5}$  aca

yellow under tail cov.

cape h 19.2 9L  $\frac{0.5}{1}$  lgr

832

notes on veg camp. of 92-93

- Sshr + Tgr work together  
in MPO (others too?). Based on  
rough 3:1 <sup>sshr</sup> / <sup>eyeball</sup> Tlgr ratio as  
estimated from in the field.

- The Percor + Percancor  
interaction: some fudge factors  
involved

Siqu → cobo weeks: 1, 5, 11  
66 <sup>u</sup> 140 <sup>u</sup> 314



in other words, when ~~comp~~ <sup>I was</sup> ~~not~~ <sup>had</sup> to save e.g. GPO 1m, comp. didn't ~~ask~~ <sup>tell</sup> me file already existed.

only  
~~not~~ have for GPO 1m, r  
 GPO 4 m, r  
~~COF 12 m, r~~  
 LPO 2, m, r  
 WAC 1-10 m, r

(967)30054  
 55

Locator

Fax

Film

Post Office  
 School

~~Fax~~ Shop

Field Work

Audubon Call

Landlords - Toilet

Recho cont

- Check bytes on GCWA DBT

- Can't add records to GCWA file

- My system <sup>changes</sup> ~~new~~ <sup>new</sup> ~~edit~~ <sup>edit</sup> ~~files~~ <sup>files</sup> I created weren't  
 2/1/93 written over old ones

Len fax received?

M+Dora - Grandpop (Peter's) let me know

Changed some pictures to rpgs

Russ - call - ask delegation

Nissan registration

Get data via Jan?

when coming any word on Peter

San Cristobal 2/10 - 3/12

MPO news

- chilon permit  
 - no reg sampling

Enclosures

- no abb.

- Act diff.

- scale ms. patches

Uraceli visit

No blow in Acach.

GPO still good

mid. sp flock - ble patch in routine

- xoff, memo, final. trees

- Audubon job - leaving earlier

- Did he like the FAX

Handwritten notes on left page:  
 1/10/93  
 last off day  
 # locators  
 time



in other words, when ~~comp~~<sup>I</sup> ~~wrote~~<sup>wrote</sup> ~~to~~<sup>to</sup> save e.g. GPO 1m, comp. didn't ~~ask~~<sup>ask</sup> me tell me file already existed.

only  
~~not~~ have for GPO 10m, r

GPO 4 m, r

~~COF 12 m;~~

LPO 2m, r

WAR 1-10 m, r

(967) 30054

55

Locator

Fax

WANT A WEEK SUMMARY  
can do it via GPO if  
he wants

San Cristobal

arrive aft. of 10th - 12th

- fax is transaction #

- if you want to bring

down a lot of money or

send us another 500.

- if I could get reimbursed

for some of my own

off. what is the money

sent away?

lecho cont

- Check bytes on GCWA DBT

- Can't add records to GCWA file

My systat browser <sup>changes</sup> → gbsp

<sup>new edited</sup>  
- all files I created weren't  
written over old ones

Len says received?

M+Dad - Grandpop (Peter's) let me know

Changed some rusties to ngas

Explain vista of different land uses  
& how international econ. markets  
should create incentives  
for Enga cof.

Photos of  
Plantations

spare time  
water  
beer  
pan

Clay cassette  
photocopy



- use wac
- query weeks 1-10 "wac 1-10"
- query weeks ~~1-9~~ 11-13 "wac 11-"
- create new file wac2

Ocolist

Pt 92

~~Exp~~

Acaom ✓

Acaloc ✓

cof com ✓

cof loc ✓

Flocloc ✓

Flecomp ✓

Ggca ✓

Gfocom

Gfoloc

Russ

Tick-off

# situation

new birds

Carmen status

Ear plugs

Heating up

other data

Rocho in Penex Rd

B+blue - Heeta

- Border-line inga cof

that takes on a

← mature forest appearance (cf Sibako)

GLBAT STUFF. Might be a combo

of Rustic/Inga but its not P/D Crested / <sup>for sure</sup> ~~Peewee~~

Russ

- more disks - for wac back-up

- earplugs

- another computer

WAC 11-X QBO

WAC 11-X QBG

Redo

- WAC in different directory because we wanted to save original WAC data just in case it was desired.

- created separate WAC file because too many bytes for one floppy.

For esp, split up WAC into WAC 1-10, & WAC 11-X

- Only created backup for non WAC files because lacked discs

Why so many bytes in WAC DBT ?? <sup>for both computers</sup>



12/29  
11/11  
11/13

11/11  
11/11  
11/11  
11/17  
11/17  
12/11  
12/16  
12/17  
12/19

To Kite - Inga  
Jose Morales

U. ... - ...  
oval / red

glac ...

...  
... red

Croton sp: Euphorbiaceae  
- long white stamen

Heliconia - reddish flowers  
→ Tiliaceae  
(Balsa → Ocroma)  
- Bombacaceae

Inga





